

PERFORMANCE MONITORING SYSTEM SUMMARY OF LOCK  
STATISTICS FOR JANUARY-MARCH 1984(U) CORPS OF ENGINEERS  
FORT BELVOIR VA WATER RESOURCES SUPPORT CE.  
M V FLEMING ET AL. SEP 84 WRSC-84-SR-6 F/G 13/10

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US Army Corps  
of Engineers  
Engineer Institute for  
Water Resources

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# Performance Monitoring System :

## Summary of Lock Statistics for January - March 1984

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19. KEY WORDS (Continue on reverse side if necessary and identify by block number) lock Performance Monitoring System PMS statistics		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Lock Performance Monitoring data are collected at Corps locks by lock operators from observation and information provided by waterway operator. This quarterly summary is an overview of the collected statistics.		

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# PERFORMANCE MONITORING SYSTEM SUMMARY OF LOCK STATISTICS JANUARY 1984 - MARCH 1984

U.S. Army Corps of Engineers  
 Water Resources Support Center  
 Institute for Water Resources  
 Ft. Belvoir, Virginia 22060



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September 1984

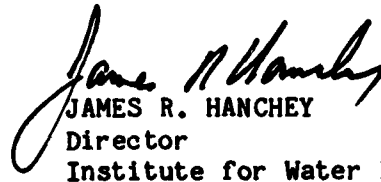
Summary Report 84-SR-6

## PREFACE

This report is a product of the Navigation Division of the U.S. Army Engineers Institute for Water Resources (WRSC-IWR). The information is compiled from statistics collected at the Corps locks in support of the lock Performance Monitoring System (PMS).

The study is managed by Mrs. Marilyn V. Fleming under the supervision of Mr. Francis M. Sharp, Chief of the WRSC-IWR Navigation Data Management and Applications Branch, and Dr. Lloyd G. Antle, Chief of the WRSC-IWR Navigation Division. The Office of the Chief of Engineers (OCE) sponsors are Mr. Henry W. Campbell, Jr., DAEN-CWO-M, and Mr. Robert M. Daniel, DAEN-CWP-G.

Requests to update or change the distribution, comments and questions can be directed to Frank Sharp (202-355-2240 or FTS 385-2240) or Marilyn Fleming at the same telephone number. The information is produced and distributed quarterly.

  
JAMES R. HANCHEY  
Director  
Institute for Water Resources

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## Introduction

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↳ The lock Performance Monitoring System (PMS), <sup>which</sup> is a part of the Inland Navigation Systems Analysis (INSA) program, and encompasses the collection, editing, maintenance and analysis of data collected at all ~~Corps-owned~~ and operated locks. The data have been collected since <sup>water</sup> March of 1975 and consist of information describing the traffic through the locks as well as the physical aspects of lockages. The quarterly summary of selected statistics presented in the appendix provides an overview of the traffic and operation at each lock. The quarterly report is presented as a set of three tables for each Corps District. Information reported for each lock and chamber includes: (1)

TABLE 1. A listing providing the name of the lock, the river on which the lock is and its dimensions. In those cases where there is no quarterly information, this table will be the only display for the district.

TABLE (2) A table providing, by direction and total, the number of tows, commercial vessels other than tows, recreational vessels, barges (empty and loaded), commercial lockages, recreational lockages and tonnage. and

TABLE (3, A summary of approach, entry, chambering and exit times (maximum, minimum and average) and the number of delays, total delay time, maximum delay time and average delay time. ←

Although the summary information will be computed and displayed for chambers at which there is data for only one or two months of the quarter, the fact is noted on the report.

Note that the statistics printed in the first quarterly report for the Tulsa District were not correct. The correct statistics are published at the end of this report.

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

PAGE 1

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
B2	NEW ORLEANS	LOWER MISS VALLEY	1/84	2/84	3/84

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
ATCHAFALAYA RIVER	11-BERWICK LOCK	0300/0045/11.0
BAYOU TECHE	31-KEYSTONE LOCK	0160/0036/12.0
FRESHWATER BAYOU	41-FRESHWATER BAYOU LOCK	0590/0084/15.0
GULF INTRACOASTAL	01-PORT ALLEN LOCK	1202/0084/15.0
	02-BAYOU SORREL LOCK	0800/0056/16.0
	03-INNER HRBR NAVIGATION CANL LK	0626/0074/40.0
	04-ALGIER'S LOCK	0760/0075/15.0
	05-HARVEY LOCK	0426/0075/14.0
	06-BAYOU BOEUF LOCK	1148/0075/15.0
	07-VERMILLION LOCK	1195/0056/14.0
	08-CALCASIEU LOCK	1194/0075/15.0
	21-SCHOONER BAYOU CONTROL STRUCT	9999/0075/14.0
	22-CATFISH POINT CONTROL STRUCT	9999/0056/16.0
	23-CALCASIEU SALT WATER BARRIER	9999/0056/15.0
OLD RIVER	51-OLD RIVER LOCK	1200/0075/15.0
RED RIVER	01-RED RIVER LOCK & DAM #1	0685/0084/ 9.0

NO DATA RECORDED ON SUMMARY FILE FOR THIS PERIOD

NO DATA RECORDED ON LOCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
 FOR THE PERIOD 1/84 THROUGH 3/84  
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
			1/84	2/84	3/84

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
KASKASKIA RIVER	01-KASKASKIA RIVER NAVIGATION LK	0610/0084/12.0
MISSISSIPPI RIVER	24-LOCK & DAM 24	0610/0110/12.0
	25-LOCK & DAM 25	0610/0110/12.0
	26-LOCK & DAM 26	0610/0110/12.0
	26-LOCK & DAM 26 AUX 1	0380/0110/12.0
	27-CHAIN OF ROCKS LOCK & DAM 27	1210/0110/12.0
	27-CHAIN OF ROCKS LK & DM 27 AX1	0610/0110/12.0

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME		MONTHS REPORTED								
B3	ST. LOUIS	LOWER MISS VALLEY		1/84 2/84 3/84								
RIVER/LOCK NAME	TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
(NAV, OPN, ETC)												
KASKASKIA RIVER												
KASKASKIA RIVER NAVIGATION LK	xxx											
UPBOUND STATISTICS	150	9	52	211	510	28	538	203	6	0	209	7
DOWNBOUND STATISTICS	138	11	68	217	3	497	500	206	9	0	215	745
TOTALS	288	20	120	428	513	525	1038	409	15	0	424	752
MISSISSIPPI RIVER												
LOCK & DAM 24	xxx											
UPBOUND STATISTICS	283	4	35	322	2691	550	3241	497	3	8	508	801
DOWNBOUND STATISTICS	258	0	28	286	111	2300	2411	434	0	4	438	3230
TOTALS	541	4	63	608	2802	2850	5652	931	3	12	946	4031
LOCK & DAM 25	xxx											
UPBOUND STATISTICS	278	3	64	345	2733	534	3267	519	3	7	529	778
DOWNBOUND STATISTICS	266	1	44	311	124	2299	2423	455	1	4	460	3226
TOTALS	544	4	108	656	2857	2833	5690	974	4	11	989	4004
LOCK & DAM 26	xxx											
UPBOUND STATISTICS	571	0	34	605	4795	1761	6556	1105	0	3	1108	2690
DOWNBOUND STATISTICS	563	0	19	582	415	5463	5878	1049	0	3	1052	7794
TOTALS	1134	0	53	1187	5210	7224	12434	2154	0	6	2160	10484
LOCK & DAM 26 AUX 1	xxx											
UPBOUND STATISTICS	390	2	98	490	1177	516	1693	833	1	12	846	905
DOWNBOUND STATISTICS	383	0	95	478	329	1346	1675	837	0	11	848	1990
TOTALS	773	2	193	968	1506	1862	3368	1670	1	23	1694	2896
CHAIN OF ROCKS LOCK & DAM 27	xxx											
UPBOUND STATISTICS	943	0	136	1079	6154	2270	8424	978	0	19	997	3607
DOWNBOUND STATISTICS	865	0	123	988	740	6741	7481	922	0	9	931	9677
TOTALS	1808	0	259	2067	6894	9011	15905	1900	0	28	1928	13284

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC B3	DISTRICT NAME ST. LOUIS	DIVISION NAME LOWER MISS VALLEY	MONTHS REPORTED									
			1/84		2/84		3/84					
-----												
RIVER/LOCK NAME	TOWS	VESSL	VESSL	VESSL	BARGS	BARGS	BARGES	LOCKGS	LCKGES	LCKGES	LCKGES	TONNAGE (KTONS)
		RECRTN	OTHER	TOTAL	EMPTY	FULL	TOTAL	CONMER	RECRTN	OTHER	TOTAL	

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME			DIVISION NAME									MONTHS REPORTED										
B3	ST. LOUIS			LOWER MISS VALLEY									1/84			2/84			3/84				
-----																							
ALL TIMES EXPRESSED IN MINUTES																							
APPROACH			LOCK PROCESSING TIME									: DELAYED DELAY			DELAY			DELAY					
			ENTRY			CHAMBER			EXIT			: TOWS			TIME			AVG			MAX		
MIN AVG MAX			: MIN AVG MAX			: MIN AVG MAX			: MIN AVG MAX			: MIN AVG MAX			: (TOWS)			(TOWS)			(ALL VSSLS)		
-----																							
KASKASKIA RIVER																							
KASKASKIA RIVER NAVAGATION L	1	6	29	1	5	28	1	9	27	1	5	25	:	16	292	18.3	33						
MISSISSIPPI RIVER																							
LOCK & DAM 24	1	9	252	1	8	55	4	9	61	1	16	86	:	344	79671	231.6	1552						
LOCK & DAM 25	1	8	74	1	8	36	4	8	47	1	14	73	:	539	64170	119.1	943						
LOCK & DAM 26	1	4	165	1	9	100	2	13	440	1	14	165	:	1133	1206505	1064.9	4757						
LOCK & DAM 26 AUX 1	1	7	278	1	6	111	4	12	79	1	12	158	:	772	309200	400.5	2850						
CHAIN OF ROCKS LOCK & DAM 27	1	8	381	1	6	35	3	11	46	1	7	30	:	1302	71242	54.7	1056						
CNAIN OF ROCKS LK & DM 27 AX	1	6	49	1	4	33	3	10	36	1	4	36	:	246	32556	132.3	1315						

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
84	VICKSBURG	LOWER MISS VALLEY	1/84	2/84	3/84

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
OUCHITA/BLACK RIV	01-JONESVILLE LOCK & DAM	0655/0084/23.4
	02-COLUMBIA LOCK & DAM	0655/0084/27.4
	06-LOCK & DAM 6	0300/0055/17.4
	08-LOCK & DAM 8	0300/0055/19.0

NO DATA RECORDED ON SUMMRY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
E3	NEW YORK	NORTH ATLANTIC	1/84	2/84	3/84

---

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
HUDSON RIVER	01-TROY LOCK & DAM	0493/0044/15.0

---

NO DATA RECORDED ON SUMMRY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
E4	NORFOLK	NORTH ATLANTIC	1/84	2/84	3/84

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
ATLANT INTRCOASTAL	11-GREAT BRIDGE GUARD LOCK	0600/0072/16.0
DISMAL SWAMP	01-DEEP CREEK LOCK	0300/0052/12.0
	02-SOUTH MILLS LOCK	0300/0052/12.0

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC E4	DISTRICT NAME NORFOLK	DIVISION NAME NORTH ATLANTIC	MONTHS REPORTED										
			1/84			2/84			3/84				
RIVER/LOCK NAME		TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL (NAV, OPN, ETC)	TONNAGE (KTONS)
ATLANT INTRCOASTAL													
GREAT BRIDGE GUARD LOCK		xxx											
UPBOUND STATISTICS		130	102	55	287	92	87	179	174	63	26	263	122
DOWNBOUND STATISTICS		135	100	49	284	56	120	176	166	74	29	269	143
TOTALS		265	202	104	571	148	207	355	340	137	55	532	266
DISMAL SWAMP													
DEEP CREEK LOCK		xxx											
UPBOUND STATISTICS		0	6	0	6	0	0	0	3	4	0	7	0
DOWNBOUND STATISTICS		0	5	0	5	0	0	0	2	5	1	8	0
TOTALS		0	11	0	11	0	0	0	5	9	1	15	0
SOUTH MILLS LOCK		xxx											
UPBOUND STATISTICS		0	8	0	8	0	0	0	3	7	0	10	0
DOWNBOUND STATISTICS		0	6	0	6	0	0	0	1	5	0	6	0
TOTALS		0	14	0	14	0	0	0	4	12	0	16	0

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROCE4	DISTRICT NAME NORFOLK			DIVISION NAME NORTH ATLANTIC									MONTHS REPORTED																	
													1/84			2/84			3/84											
													ALL TIMES EXPRESSED IN MINUTES																	
APPROACH			LOCK PROCESSING TIME						: DELAYED DELAY			DELAY	DELAY																	
			ENTRY		CHAMBER				EXIT			: TONS	TIME	AVG	MAX															
MIN AVG MAX			: MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	:		(TONS)	(TONS)	(ALL VSSLS)														
ATLANT INTRACOASTAL																														
GREAT BRIDGE GUARD LOCK			1	3	15	1	4	10	2	6	40	2	4	10	:	264	1265	4.8	45											
DISMAL SWAMP																														
DEEP CREEK LOCK			1	4	6	4	4	5	5	10	15	5	5	10	:	0	0	.0	5											
SOUTH MILLS LOCK			2	3	13	2	3	5	10	10	10	3	4	5	:	0	0	.0	125											

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
F1	BUFFALO	NORTH CENTRAL	1/84	2/84	3/84

RIVER	LCODE-LOCK NAME	LEN/MID/DRAFT (FT/FT/FT)
BLK ROCK CH/TONAWANDA	01-BLACK ROCK LOCK	0650/0070/21.7

NO DATA RECORDED ON SUMMARY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

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EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
F3	DETROIT	NORTH CENTRAL	1/84	2/84	3/84
-----					
RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)			
FOX RIVER	11-DE PERE LOCK & DAM	0146/0036/ 6.0			
	12-LITTLE KAUKAUNA LOCK & DAM	0146/0036/ 6.0			
	13-RAPIDE CROCHE LOCK & DAM	0146/0036/ 6.0			
	21-KAUKAUNA LOCK 1	0144/0035/ 6.0			
	22-KAUKAUNA LOCK 2	0144/0035/ 6.0			
	23-KAUKAUNA LOCK 3	0144/0037/ 6.0			
	24-KAUKAUNA LOCK 4	0144/0037/ 6.0			
	25-KAUKAUNA LOCK 5	0144/0036/ 6.0			
	32-LITTLE CHUTE LOCK 2	0142/0035/ 6.0			
	33-LITTLE CHUTE COMB LOCKS UPPER	0144/0037/ 6.0			
	34-LITTLE CHUTE COMB LOCKS LOWER	0146/0036/ 6.0			
	35-CEDARS LOCK & DAM	0144/0035/ 6.0			
	41-APPLETON LOCK 1	0145/0035/ 6.0			
	42-APPLETON LOCK 2	0145/0035/ 6.0			
	43-APPLETON LOCK 3	0144/0035/ 6.0			
	44-APPLETON LOCK 4	0144/0035/ 6.0			
	51-MENASHA LOCK & DAM	0144/0035/ 6.0			
THE INLAND ROUTE ST MARYS RIVER	11-ALANSON LOCK	0066/0018/ 7.0			
	01-MACARTHUR LOCK	0800/0080/31.0			
	02-NEW POE LOCK	1200/0110/32.0			
	03-DAVIS LOCK00	1350/0080/31.0			
	04-SABIN LOCK00	1350/0080/31.0			
-----					

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC F3	DISTRICT NAME DETROIT	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED				
			1/84	2/84	3/84		

RIVER/LOCK NAME	TOWS	VESSL	VESSL	VESSL	BARGS	BARGS	BARGS	LOCKGS	LCKGES	LCKGES	LCKGES	TONNAGE
		RECRTN	OTHER	TOTAL	EMPTY	FULL	TOTAL	COMMER	RECRTN	OTHER	TOTAL	(KTONS)

(NAV, OPN, ETC)

## FOX RIVER

DE PERE LOCK & DAM	NO DATA RECORDED FOR THIS LOCK
LITTLE KAUKAUNA LOCK & DAM	NO DATA RECORDED FOR THIS LOCK
RAPIDE CROCHE LOCK & DAM	NO DATA RECORDED FOR THIS LOCK
KAUKAUNA LOCK 1	NO DATA RECORDED FOR THIS LOCK
KAUKAUNA LOCK 2	NO DATA RECORDED FOR THIS LOCK
KAUKAUNA LOCK 3	NO DATA RECORDED FOR THIS LOCK
KAUKAUNA LOCK 4	NO DATA RECORDED FOR THIS LOCK
KAUKAUNA LOCK 5	NO DATA RECORDED FOR THIS LOCK
LITTLE CHUTE LOCK 2	NO DATA RECORDED FOR THIS LOCK
LITTLE CHUTE COMB LOCKS UPPER	NO DATA RECORDED FOR THIS LOCK
LITTLE CHUTE COMB LOCKS LOWER	NO DATA RECORDED FOR THIS LOCK
CEDARS LOCK & DAM	NO DATA RECORDED FOR THIS LOCK
APPLETON LOCK 1	NO DATA RECORDED FOR THIS LOCK
APPLETON LOCK 2	NO DATA RECORDED FOR THIS LOCK
APPLETON LOCK 3	NO DATA RECORDED FOR THIS LOCK



TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC F3	DISTRICT NAME DETROIT	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED											
			1/84				2/84				3/84			
<hr/>														
ALL TIMES EXPRESSED IN MINUTES														
			LOCK PROCESSING TIME						: DELAYED		DELAY	DELAY		
APPROACH			ENTRY		CHAMBER		EXIT		: TONS	TIME	AVG	MAX		
MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX
												(TOMS)	(TOMS)	(ALL VSSLS)
<hr/>														
FOX RIVER														
DE PERE LOCK & DAM		NO DATA RECORDED FOR THIS LOCK												
LITTLE KAUKAUMA LOCK & DAM		NO DATA RECORDED FOR THIS LOCK												
RAPIDE CROCHE LOCK & DAM		NO DATA RECORDED FOR THIS LOCK												
KAUKAUMA LOCK 1		NO DATA RECORDED FOR THIS LOCK												
KAUKAUMA LOCK 2		NO DATA RECORDED FOR THIS LOCK												
KAUKAUMA LOCK 3		NO DATA RECORDED FOR THIS LOCK												
KAUKAUMA LOCK 4		NO DATA RECORDED FOR THIS LOCK												
KAUKAUMA LOCK 5		NO DATA RECORDED FOR THIS LOCK												
LITTLE CHUTE LOCK 2		NO DATA RECORDED FOR THIS LOCK												
LITTLE CHUTE COMB LOCKS UPPER		NO DATA RECORDED FOR THIS LOCK												
LITTLE CHUTE COMB LOCKS LOWER		NO DATA RECORDED FOR THIS LOCK												
CEDARS LOCK & DAM		NO DATA RECORDED FOR THIS LOCK												
APPLETON LOCK 1		NO DATA RECORDED FOR THIS LOCK												
APPLETON LOCK 2		NO DATA RECORDED FOR THIS LOCK												
APPLETON LOCK 3		NO DATA RECORDED FOR THIS LOCK												

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC F3	DISTRICT NAME DETROIT	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED		
			1/84	2/84	3/84
-----					
			ALL TIMES EXPRESSED IN MINUTES		
			LOCK PROCESSING TIME		
			: DELAYED DELAY		
			: TOWS TIME AVG MAX		
			: (TOWS) (TOWS) (ALL VSSLS)		
-----					
FOX RIVER					
APPLETON LOCK 4 NO DATA RECORDED FOR THIS LOCK					
MENASHA LOCK & DAM NO DATA RECORDED FOR THIS LOCK					
THE INLAND ROUTE					
ALANSON LOCK NO DATA RECORDED FOR THIS LOCK					
ST MARYS RIVER					
MACARTHUR LOCK NO DATA RECORDED FOR THIS LOCK					
NEW POE LOCK 3 10 17 1 5 15 11 17 24 2 5 18 : 3 3 1.0 42					
DAVIS LOCK00 NO DATA RECORDED FOR THIS LOCK					
SABIN LOCK00 NO DATA RECORDED FOR THIS LOCK					

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC F4	DISTRICT NAME ROCK ISLAND	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED		
			1/84	2/84	3/84
-----					
RIVER	LCODE-LOCK NAME		LEN/WID/DRAFT (FT/FT/FT)		
ILLINOIS	01-THOMAS J O'BRIEN		1200/0110/12.0		
	02-LOCKPORT LOCK		1200/0110/12.0		
	03-BRANDON ROAD LOCK & DAM		1200/0110/12.0		
	04-DRESDEN ISLAND LOCK & DAM		1200/0110/12.0		
	05-MARSELLES LOCK & DAM		1200/0110/12.0		
	06-STARVED ROCK LOCK & DAM		1200/0110/12.0		
	07-PEORIA LOCK & DAM		1200/0110/12.0		
	08-LAGRANGE LOCK & DAM		1200/0110/12.0		
MISSISSIPPI RIVER	11-LOCK & DAM 11		1350/0110/10.0		
	12-LOCK & DAM 12		1350/0110/10.0		
	13-LOCK & DAM 13		1350/0110/10.0		
	14-LOCK & DAM 14		1350/0110/10.0		
	14-LOCK & DAM 14 AUXILIARY 1		1350/0110/10.0		
	15-LOCK & DAM 15		1350/0110/10.0		
	15-LOCK & DAM 15 AUXILIARY 1		1350/0110/10.0		
	16-LOCK & DAM 16		1350/0110/10.0		
	17-LOCK & DAM 17		1350/0110/10.0		
	18-LOCK & DAM 18		1350/0110/10.0		
	19-LOCK & DAM 19		1350/0110/10.0		
	19-LOCK & DAM 19 AUXILIARY 1		1350/0110/10.0		
	20-LOCK & DAM 20		1350/0110/10.0		
	21-LOCK & DAM 21		1350/0110/10.0		
	22-LOCK & DAM 22		1350/0110/10.0		

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

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EROC F4	DISTRICT NAME ROCK ISLAND	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED											
			1/84		2/84		3/84							
RIVER/LOCK NAME			TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
(NAV, OPN, ETC)														
ILLINOIS														
THOMAS J O'BRIEN			xxx	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS			153	0	44	197	113	271	384	193	0	1	194	387
DOWNBOUND STATISTICS			164	0	37	201	222	159	381	196	0	0	196	258
TOTALS			317	0	81	398	335	430	765	389	0	1	390	646
LOCKPORT LOCK			xxx	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS			177	0	42	219	140	539	679	208	0	0	208	821
DOWNBOUND STATISTICS			190	0	34	224	363	283	646	213	0	0	213	448
TOTALS			367	0	76	443	503	822	1325	421	0	0	421	1270
BRANDON ROAD LOCK & DAM			xxx	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS			184	0	40	224	174	550	724	221	0	7	228	823
DOWNBOUND STATISTICS			193	0	45	238	358	333	691	229	0	5	234	509
TOTALS			377	0	85	462	532	883	1415	450	0	12	462	1332
DRESDEN ISLAND LOCK & DAM			xxx	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS			178	0	24	202	202	540	742	209	0	3	212	811
DOWNBOUND STATISTICS			185	0	23	208	342	410	752	220	0	1	221	677
TOTALS			363	0	47	410	544	950	1494	429	0	4	433	1488
MARSELLES LOCK & DAM			xxx	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS			209	0	28	237	272	618	890	266	0	2	268	1015
DOWNBOUND STATISTICS			200	0	40	240	287	634	921	285	0	2	287	1002
TOTALS			409	0	68	477	559	1252	1811	551	0	4	555	2017
STARVED ROCK LOCK & DAM			xxx	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS			218	0	37	255	394	614	1008	309	0	1	310	1016
DOWNBOUND STATISTICS			233	0	28	261	284	790	1074	328	0	1	329	1224
TOTALS			451	0	65	516	678	1404	2082	637	0	2	639	2240
PEORIA LOCK & DAM			xxx	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS			291	0	33	324	931	751	1682	149	0	227	376	1243
DOWNBOUND STATISTICS			306	0	31	337	322	1605	1927	147	0	239	386	2329
TOTALS			597	0	64	661	1253	2356	3609	296	0	466	762	3572

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC F4	DISTRICT NAME ROCK ISLAND	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED									
			1/84		2/84		3/84					
-----												
RIVER/LOCK NAME	TOWNS	VESSL	VESSL	VESSL	BARGS	BARGS	BARGS	LOCKGS	LCKGES	LCKGES	LCKGES	TONNAGE (KTONS)
		RECRTN	OTHER	TOTAL	EMPTY	FULL	TOTAL	COMMER	RECRTN	OTHER	TOTAL	
(NAV, OPM, ETC)												
-----												
ILLINOIS												
LACRANGE LOCK & DAM	XXX	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS	306	0	26	332	1359	779	2138	69	0	296	365	1272
DOWNBOUND STATISTICS	325	0	15	340	288	2061	2349	63	0	321	384	2996
TOTALS	631	0	41	672	1647	2840	4487	132	0	617	749	4268
MISSISSIPPI RIVER												
LOCK & DAM 11	XXX	ONLY SECOND MONTH REPORTED										
UPBOUND STATISTICS	1	0	0	1	0	13	13	2	0	0	2	18
DOWNBOUND STATISTICS	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	1	0	0	1	0	13	13	2	0	0	2	18
LOCK & DAM 12	XXX	ONLY SECOND MONTH REPORTED										
UPBOUND STATISTICS	2	0	1	3	15	15	30	5	0	0	5	21
DOWNBOUND STATISTICS	0	0	0	0	0	0	0	0	0	1	1	0
TOTALS	2	0	1	3	15	15	30	5	0	1	6	21
LOCK & DAM 13	XXX	ONLY SECOND MONTH REPORTED										
UPBOUND STATISTICS	2	0	1	3	15	15	30	5	0	0	5	21
DOWNBOUND STATISTICS	0	0	0	0	0	0	0	0	0	1	1	0
TOTALS	2	0	1	3	15	15	30	5	0	1	6	21
LOCK & DAM 14	XXX	ONLY SECOND MONTH REPORTED										
UPBOUND STATISTICS	4	1	0	5	22	15	37	6	1	1	8	22
DOWNBOUND STATISTICS	0	1	1	2	0	0	0	3	0	0	3	0
TOTALS	4	2	1	7	22	15	37	9	1	1	11	22
LOCK & DAM 14 AUXILIARY 1	NO DATA RECORDED FOR THIS LOCK											
LOCK & DAM 15	XXX	ONLY SECOND MONTH REPORTED										
UPBOUND STATISTICS	8	0	0	8	45	15	60	11	0	0	11	21
DOWNBOUND STATISTICS	1	0	2	3	0	1	1	3	0	0	3	1
TOTALS	9	0	2	11	45	16	61	14	0	0	14	22

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC F4	DISTRICT NAME ROCK ISLAND	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED									
			1/84		2/84		3/84					
-----												
RIVER/LOCK NAME	TOMS	VESSL	VESSL	VESSL	BARGS	BARGS	BARGES	LOCKGS	LCKGES	LCKGES	LCKGES	TONNAGE (KTONS)
		RECRTN	OTHER	TOTAL	EMPTY	FULL	TOTAL	COMMER	RECRTN	OTHER	TOTAL	
(NAV, OPN, ETC)												
-----												
MISSISSIPPI RIVER												
LOCK & DAM 15 AUXILIARY 1	NO DATA RECORDED FOR THIS LOCK											
LOCK & DAM 16	***	ONLY SECOND MONTH REPORTED										
UPBOUND STATISTICS	11	0	2	13	87	24	111	19	0	0	19	33
DOWNBOUND STATISTICS	9	1	5	15	8	82	90	20	1	0	21	114
TOTALS	20	1	7	28	95	106	201	39	1	0	40	148
LOCK & DAM 17	***	ONLY SECOND MONTH REPORTED										
UPBOUND STATISTICS	10	0	1	11	112	15	127	19	0	0	19	21
DOWNBOUND STATISTICS	9	0	1	10	0	99	99	17	0	0	17	138
TOTALS	19	0	2	21	112	114	226	36	0	0	36	159
LOCK & DAM 18	***	ONLY SECOND MONTH REPORTED										
UPBOUND STATISTICS	12	0	1	13	129	15	144	22	0	0	22	21
DOWNBOUND STATISTICS	10	0	2	12	0	108	108	19	0	0	19	151
TOTALS	22	0	3	25	129	123	252	41	0	0	41	172
LOCK & DAM 19	***	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS	17	0	17	34	171	28	199	30	0	1	31	39
DOWNBOUND STATISTICS	54	0	9	63	39	586	625	57	0	0	57	821
TOTALS	71	0	26	97	210	614	824	87	0	1	88	860
LOCK & DAM 19 AUXILIARY 1	NO DATA RECORDED FOR THIS LOCK											
LOCK & DAM 20	***	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS	18	0	25	43	184	27	211	49	0	1	50	37
DOWNBOUND STATISTICS	68	0	17	85	35	735	770	131	0	1	132	1032
TOTALS	86	0	42	128	219	762	981	180	0	2	182	1070
LOCK & DAM 21	***	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS	64	2	24	90	333	58	391	104	1	2	107	87
DOWNBOUND STATISTICS	103	3	18	124	44	816	860	173	2	2	177	1140
TOTALS	167	5	42	214	377	874	1251	277	3	4	284	1228

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC F4	DISTRICT NAME ROCK ISLAND	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED									
			1/84		2/84		3/84					

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RIVER/LOCK NAME	TOWS	VESSL		VESSL TOTAL	BARGS		BARGES TOTAL	LOCKGS COMMER	LCKGES		LCKGES TOTAL	TONNAGE (KTONS)
		RECRTN	OTHER		EMPTY	FULL			RECRTN	OTHER		

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(NAV, OPN, ETC)

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## MISSISSIPPI RIVER

LOCK & DAM 22	*** ONLY FIRST AND SECOND MONTHS REPORTED											
	61	0	16	77	371	59	430	96	0	2	98	87

UPBOUND STATISTICS	61	0	16	77	371	59	430	96	0	2	98	87
DOWNBOUND STATISTICS	99	0	10	109	48	834	882	169	0	1	170	1160
TOTALS	160	0	26	186	419	893	1312	265	0	3	268	1247

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
F4	ROCK ISLAND	NORTH CENTRAL	1/84	2/84	3/84

	ALL TIMES EXPRESSED IN MINUTES																
	APPROACH			LOCK PROCESSING TIME						EXIT		: DELAYED DELAY		DELAY	DELAY		
	MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: TONS	TIME	AVG	MAX	
														(TONS)	(TONS)	(ALL VSSLS)	
-----																	
ILLINOIS																	
THOMAS J O'BRIEN	1	5	26	1	3	32	4	13	38	1	3	11	:	42	539	12.8	44
LOCKPORT LOCK	1	8	39	1	8	30	2	21	44	1	7	79	:	244	10239	42.0	233
BRANDON ROAD LOCK & DAM	1	11	430	1	8	55	7	19	405	1	8	64	:	235	10407	40.8	375
DRESDEN ISLAND LOCK & DAM	1	8	58	1	8	37	5	15	38	1	10	126	:	196	10370	52.9	1450
MARSELLES LOCK & DAM	1	14	436	1	9	66	4	21	618	1	19	851	:	235	45437	193.3	1002
STARVED ROCK LOCK & DAM	1	8	235	1	8	34	5	14	114	1	13	182	:	223	39880	178.8	1161
PEDRIA LOCK & DAM	1	2	45	1	6	451	1	6	252	1	9	204	:	262	63966	244.1	1873
LACRANGE LOCK & DAM	1	2	78	1	3	50	1	3	31	1	6	104	:	149	25263	169.6	700
MISSISSIPPI RIVER																	
LOCK & DAM 11	8	25	43	12	20	29	2	12	23	100	239	264	:	0	0	.0	0
LOCK & DAM 12	1	8	13	1	6	15	4	9	20	1	10	25	:	1	18	18.0	18
LOCK & DAM 13	5	19	58	1	5	14	9	13	20	2	16	30	:	0	0	.0	0
LOCK & DAM 14	1	5	13	1	4	11	6	8	12	1	11	38	:	0	0	.0	0
LOCK & DAM 14 AUXILIARY 1	NO DATA RECORDED FOR THIS LOCK																
LOCK & DAM 15	3	7	20	1	5	15	6	14	31	3	14	39	:	1	77	77.0	77
LOCK & DAM 15 AUXILIARY 1	NO DATA RECORDED FOR THIS LOCK																

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
F4	ROCK ISLAND	NORTH CENTRAL	1/84	2/84	3/84

---

ALL TIMES EXPRESSED IN MINUTES													
APPROACH			LOCK PROCESSING TIME						EXIT				: DELAYED DELAY
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	MAX
			ENTRY			CHAMBER						: TONS	TIME
												(TONS)	(TONS)
													AVG
													MAX
													(ALL VSSLS)

---

MISSISSIPPI RIVER

LOCK & DAM 16	1	16	85	1	8	25	3	7	21	1	18	38 :	3	1380	460.0	795
LOCK & DAM 17	1	13	46	1	8	20	7	8	12	3	14	34 :	6	410	68.3	125
LOCK & DAM 18	1	13	66	1	8	20	4	6	10	2	15	40 :	6	281	46.8	90
LOCK & DAM 19	1	15	57	1	8	23	2	20	78	1	11	29 :	43	13257	308.3	1875
LOCK & DAM 19 AUXILIARY 1	NO DATA RECORDED FOR THIS LOCK															
LOCK & DAM 20	1	6	48	1	9	167	1	9	135	1	17	75 :	52	9493	182.6	1440
LOCK & DAM 21	1	8	60	1	7	112	1	6	56	1	14	102 :	59	19219	325.7	870
LOCK & DAM 22	1	13	147	1	9	31	1	7	32	2	19	115 :	67	16200	241.8	491

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
F5	ST. PAUL	NORTH CENTRAL	1/84	2/84	3/84

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
MISSISSIPPI RIVER	01-LOCK & DAM 1 MAIN CHBR 1	0400/0056/11.0
	01-LOCK & DAM 1 MAIN CHBR 2	0400/0056/11.0
	02-LOCK & DAM 2	0600/0110/11.0
	02-LOCK & DAM 2 AUXILIARY 1	0500/0110/11.0
	03-LOCK & DAM 3	0600/0110/11.0
	04-LOCK & DAM 4	0600/0110/11.0
	05-LOCK & DAM 5	0600/0110/11.0
	06-LOCK & DAM 6	0600/0110/11.0
	07-LOCK & DAM 7	0600/0110/11.0
	08-LOCK & DAM 8	0600/0110/11.0
	09-LOCK & DAM 9	0600/0110/11.0
	10-LOCK & DAM 10	0600/0110/11.0
	51-ST ANTHONY FALLS UPPER L & D	0400/0056/11.0
	52-ST ANTHONY FALLS LOWER L & D	0400/0056/11.0
	55-LOCK & DAM 5A	0600/0110/11.0

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC F5	DISTRICT NAME ST. PAUL	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED											
			1/84		2/84		3/84							
-----														
RIVER/LOCK NAME	TOWS	VESSL	VESSL	VESSL	BARGS	BARGS	BARGES	LOCKGS	LCKGES	LCKGES	LCKGES	TONNAGE (KTONS)		
		RECRTN	OTHER	TOTAL	EMPTY	FULL	TOTAL	CONNER	RECRTN	OTHER	TOTAL			
(NAV, OPN, ETC)														
-----														
MISSISSIPPI RIVER														
LOCK & DAM 1 MAIN CHBR 1		***	ONLY THIRD MONTH REPORTED											
UPBOUND STATISTICS		9	5	1	15	7	3	15	10	3	0	13	11	
DOWNBOUND STATISTICS		5	5	6	16	4	1	6	1	3	0	14	2	
TOTALS		14	10	7	31	11	14	21	21	6	0	27	12	
LOCK & DAM 1 MAIN CHBR 2		NO DATA RECORDED FOR THIS LOCK												
LOCK & DAM 2		***	ONLY THIRD MONTH REPORTED											
UPBOUND STATISTICS		69	0	4	73	571	181	752	122	0	1	123	255	
DOWNBOUND STATISTICS		55	0	6	61	11	347	408	90	0	0	90	560	
TOTALS		124	0	10	134	582	578	1160	212	0	1	213	815	
LOCK & DAM 2 AUXILIARY 1		NO DATA RECORDED FOR THIS LOCK												
LOCK & DAM 3		***	ONLY THIRD MONTH REPORTED											
UPBOUND STATISTICS		66	11	12	89	574	175	749	125	12	1	138	247	
DOWNBOUND STATISTICS		50	8	20	78	2	401	403	85	11	0	96	565	
TOTALS		116	19	32	167	576	576	1152	210	23	1	234	813	
LOCK & DAM 4		***	ONLY THIRD MONTH REPORTED											
UPBOUND STATISTICS		67	9	1	77	590	175	765	117	13	3	133	246	
DOWNBOUND STATISTICS		48	12	8	68	2	376	378	78	12	1	91	530	
TOTALS		115	21	9	145	592	551	1143	195	25	4	224	777	
LOCK & DAM 5		***	ONLY THIRD MONTH REPORTED											
UPBOUND STATISTICS		68	0	1	69	619	177	796	123	0	3	126	250	
DOWNBOUND STATISTICS		47	0	8	55	0	376	376	78	0	3	81	530	
TOTALS		115	0	9	124	619	553	1172	201	0	6	207	781	
LOCK & DAM 6		***	ONLY THIRD MONTH REPORTED											
UPBOUND STATISTICS		74	2	4	80	698	221	919	135	3	7	145	316	
DOWNBOUND STATISTICS		49	3	9	61	7	398	405	84	4	4	92	560	
TOTALS		123	5	13	141	705	619	1324	219	7	11	237	877	

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC F5	DISTRICT NAME ST. PAUL	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED											
			1/84			2/84			3/84					
RIVER/LOCK NAME			TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS CONNR	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

ERO F5	DISTRICT NAME ST. PAUL	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED															
			1/84 2/84 3/84															
			ALL TIMES EXPRESSED IN MINUTES															
			APPROACH			LOCK PROCESSING TIME						EXIT			: DELAYED		DELAY	DELAY
			MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: TONS	TIME	AVG	MAX
															(TONS)	(TONS)	(ALL VSSLS)	
MISSISSIPPI RIVER																		
LOCK & DAM 1 MAIN CHBR 1	1	2	6	2	4	9	9	12	20	2	5	14	:	1	17	17.0	17	
LOCK & DAM 1 MAIN CHBR 2	NO DATA RECORDED FOR THIS LOCK																	
LOCK & DAM 2	1	16	332	1	12	118	5	12	55	1	20	190	:	77	21351	277.3	1255	
LOCK & DAM 2 AUXILIARY 1	NO DATA RECORDED FOR THIS LOCK																	
LOCK & DAM 3	1	9	92	1	8	32	3	5	15	1	14	106	:	45	3612	66.9	252	
LOCK & DAM 4	1	9	58	1	9	56	4	7	36	1	15	59	:	55	5788	105.2	622	
LOCK & DAM 5	1	9	115	1	9	89	4	8	50	1	19	190	:	52	4108	79.0	241	
LOCK & DAM 6	1	8	56	1	9	61	4	6	55	1	15	73	:	67	9381	140.0	561	
LOCK & DAM 7	1	9	171	1	12	259	4	7	55	2	19	285	:	71	12071	170.0	490	
LOCK & DAM 8	1	9	92	1	11	110	5	11	75	2	19	69	:	66	14070	213.2	1008	
LOCK & DAM 9	1	10	87	1	10	55	4	7	55	2	20	102	:	39	4924	126.3	386	
LOCK & DAM 10	1	10	345	1	11	399	4	6	42	1	19	431	:	73	6730	92.2	557	
ST ANTHONY FALLS UPPER L & D	1	3	11	1	3	9	8	9	10	1	4	12	:	2	49	24.5	25	
ST ANTHONY FALLS LOWER L & D	1	3	9	1	3	7	10	12	15	1	3	7	:	2	48	24.0	34	
LOCK & DAM 5A	1	8	77	1	8	95	4	7	34	1	13	38	:	46	2660	57.8	234	

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

PAGE 28

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
62	PORTLAND	NORTH PACIFIC	1/84	2/84	3/84

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
COLUMBIA RIVER	01-BONNEVILLE LOCK & DAM	0500/0074/15.0
	02-THE DALLES DAM	0650/0084/15.0
	03-JOHN DAY LOCK & DAM	0650/0084/15.0
WILLAMETTE RIVER	11-WILLAMETTE FALLS LOCKS 1 - 4	0200/0037/ 6.5
	15-WILLAMETTE FALLS GUARD LOCK	0200/0037/ 6.5

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC G2	DISTRICT NAME PORTLAND	DIVISION NAME NORTH PACIFIC	MONTHS REPORTED										
			1/84			2/84			3/84				
RIVER/LOCK NAME		TOMS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
(NAV, OPN, ETC)													
COLUMBIA RIVER													
BONNEVILLE LOCK & DAM		xxx											
UPBOUND STATISTICS		198	6	15	219	479	204	683	418	6	10	434	296
DOWNBOUND STATISTICS		205	9	11	225	25	675	700	437	8	6	451	1505
TOTALS		403	15	26	444	504	879	1383	855	14	16	885	1802
THE DALLES DAM		xxx											
UPBOUND STATISTICS		150	2	4	156	340	190	530	153	2	4	159	283
DOWNBOUND STATISTICS		154	6	4	164	21	519	540	159	4	4	167	1282
TOTALS		304	8	8	320	361	709	1070	312	6	8	326	1565
JOHN DAY LOCK & DAM		xxx											
UPBOUND STATISTICS		150	2	5	157	333	187	520	151	1	5	157	277
DOWNBOUND STATISTICS		155	8	5	168	20	518	538	157	4	6	167	1265
TOTALS		305	10	10	325	353	705	1058	308	5	11	324	1542
WILLAMETTE RIVER													
WILLAMETTE FALLS LOCKS 1 - 4		xxx											
UPBOUND STATISTICS		106	13	12	131	16	154	170	171	19	0	190	44
DOWNBOUND STATISTICS		100	21	17	138	3	151	154	162	25	0	187	41
TOTALS		206	34	29	269	19	305	324	333	44	0	377	85
WILLAMETTE FALLS GUARD LOCK		xxx											
UPBOUND STATISTICS		115	14	135	264	12	113	125	245	13	1	259	29
DOWNBOUND STATISTICS		112	22	140	274	15	97	112	216	18	1	235	28
TOTALS		227	36	275	538	27	210	237	461	31	2	494	57

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC G2	DISTRICT NAME			DIVISION NAME			MONTHS REPORTED												
	PORTLAND			NORTH PACIFIC			1/84				2/84		3/84						
ALL TIMES EXPRESSED IN MINUTES																			
APPROACH			LOCK PROCESSING TIME			ENTRY			CHAMBER			EXIT			DELAYED	DELAY	DELAY	DELAY	
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	TONS	TIME	AVG	MAX	
																(TONS)	(TONS)	(ALL VSSLS)	
COLUMBIA RIVER																			
BONNEVILLE LOCK & DAM			1	7	67	2	6	68	10	23	100	1	4	26	:	397	27916	70.3	455
THE DALLES DAM			1	5	25	2	6	21	5	22	118	1	5	20	:	267	42989	161.0	20330
JOHN DAY LOCK & DAM			2	5	27	2	6	26	15	26	80	1	5	30	:	305	2043	6.7	100
WILLAMETTE RIVER																			
WILLAMETTE FALLS LOCKS 1 - 4			1	1	43	1	2	13	1	36	74	1	1	11	:	203	252	1.2	11
WILLAMETTE FALLS GUARD LOCK			1	1	3	1	1	4	1	1	66	1	1	11	:	225	230	1.0	51

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
G3	SEATTLE	NORTH PACIFIC	1/84	2/84	3/84

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
LAKE WASHINGTON SHP CA	01-HIRAM M CHITTENDEN LOCKS	0825/0080/30.0
	01-HIRAM M CHITTENDEN LOCKS AUX1	0150/0026/25.0

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC G3	DISTRICT NAME SEATTLE	DIVISION NAME NORTH PACIFIC	MONTHS REPORTED									
			1/84			2/84			3/84			
-----												
RIVER/LOCK NAME	TONS	VESSL	VESSL	VESSL	BARGS	BARGS	BARGES	LOCKGS	LCKGES	LCKGES	LCKGES	TONNAGE (KTONS)
		RECRTN	OTHER	TOTAL	EMPTY	FULL	TOTAL	COMMER	RECRTN	OTHER	TOTAL	
-----												
LAKE WASHINGTON SHP CA												
HIRAM M CHITTENDEN LOCKS		***										
UPBOUND STATISTICS	219	1302	294	1815	68	212	280	442	61	53	556	330
DOWNBOUND STATISTICS	256	1023	318	1597	171	297	468	484	53	49	586	100
TOTALS	475	2325	612	3412	239	509	748	926	114	102	1142	430
HIRAM M CHITTENDEN LOCKS AUX1		***										
UPBOUND STATISTICS	17	2325	295	2637	15	2	17	540	751	100	1391	0
DOWNBOUND STATISTICS	21	2704	263	2988	11	10	21	523	884	92	1499	0
TOTALS	38	5029	558	5625	26	12	38	1063	1635	192	2890	0



TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
G4	WALLA WALLA	NORTH PACIFIC	1/84	2/84	3/84

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
COLUMBIA RIVER	24-MCNARY LOCK & DAM	0650/0084/14.0
SHAKE RIVER	01-ICE HARBOR LOCK & DAM	0650/0084/14.0
	02-LOWER MONUMENTAL LOCK & DAM	0650/0084/14.0
	03-LITTLE GOOSE LOCK & DAM	0650/0084/14.0
	04-LOWER GRANITE LOCK & DAM	0650/0084/14.0

TABLE 2

PERFORMANCE MONITORING SYSTEM (PHS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC C4	DISTRICT NAME WALLA WALLA	DIVISION NAME NORTH PACIFIC	MONTHS REPORTED										
			1/84			2/84			3/84				
RIVER/LOCK NAME		TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL (NAV, OPN, ETC)	TONNAGE (KTONS)
COLUMBIA RIVER													
MCNARY LOCK & DAM		XXX											
UPBOUND STATISTICS		141	5	0	146	303	197	500	142	4	1	147	291
DOWNBOUND STATISTICS		144	11	0	155	27	473	500	148	6	1	155	1249
TOTALS		285	16	0	301	330	670	1000	290	10	2	302	1540
SNAKE RIVER													
ICE HARBOR LOCK & DAM		XXX											
UPBOUND STATISTICS		128	17	31	176	268	42	310	160	12	3	175	15
DOWNBOUND STATISTICS		147	20	77	244	3	307	310	161	11	3	175	741
TOTALS		275	37	108	420	271	349	620	321	23	6	350	756
LOWER MONUMENTAL LOCK & DAM		XXX											
UPBOUND STATISTICS		86	3	0	89	239	41	280	88	2	1	91	16
DOWNBOUND STATISTICS		87	4	1	92	3	275	278	88	3	2	93	642
TOTALS		173	7	1	181	242	316	558	176	5	3	184	658
LITTLE GOOSE LOCK & DAM		XXX											
UPBOUND STATISTICS		86	0	0	86	234	41	275	86	0	2	88	16
DOWNBOUND STATISTICS		86	1	0	87	3	266	269	87	1	3	91	616
TOTALS		172	1	0	173	237	307	544	173	1	5	179	633
LOWER GRANITE LOCK & DAM		XXX											
UPBOUND STATISTICS		81	3	1	85	182	41	223	84	2	5	91	17
DOWNBOUND STATISTICS		80	8	1	89	4	207	211	82	4	6	92	447
TOTALS		161	11	2	174	186	248	434	166	6	11	183	464

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC G4	DISTRICT NAME WALLA WALLA			DIVISION NAME NORTH PACIFIC									MONTHS REPORTED								
													1/84			2/84			3/84		
ALL TIMES EXPRESSED IN MINUTES																					
APPROACH			LOCK PROCESSING TIME									: DELAYED DELAY		DELAY	DELAY						
												: TOWS				TIME	AVG	MAX			
MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	:		(TOWS)	(TOWS)	(ALL VSSLS)					
COLUMBIA RIVER																					
MCNARY LOCK & DAM			2	5	32	2	6	25	6	17	36	2	6	17	:	284	1912	6.7	75		
SNAKE RIVER																					
ICE HARBOR LOCK & DAM			1	3	18	1	3	15	8	21	34	2	3	17	:	275	1309	4.8	143		
LOWER MONUMENTAL LOCK & DAM			2	4	21	2	6	23	12	23	41	1	4	13	:	173	1539	8.9	400		
LITTLE GOOSE LOCK & DAM			1	4	30	2	4	30	10	20	60	2	5	20	:	172	1340	7.8	290		
LOWER GRANITE LOCK & DAM			2	3	16	2	6	17	9	12	40	2	4	10	:	160	635	4.0	27		

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
H1	HUNTINGTON	OHIO RIVER	1/84	2/84	3/84
<hr/>					
RIVER	LCODE-LOCK NAME		LEN/WID/DRAFT (FT/FT/FT)		
KANAWHA RIVER	01-WINFIELD LOCKS & DAM MAIN 1		0360/0056/12.0		
	01-WINFIELD LOCKS & DAM MAIN 2		0360/0056/12.0		
	02-MARMET LOCKS & DAM MAIN 1		0360/0056/12.0		
	02-MARMET LOCKS & DAM MAIN 2		0360/0056/12.0		
	03-LONDON LOCKS & DAM MAIN 1		0360/0056/12.0		
	03-LONDON LOCKS & DAM MAIN 2		0360/0056/12.0		
OHIO RIVER	21-BELLEVILLE LOCKS & DAM		1200/0110/12.0		
	21-BELLEVILLE LOCKS & DAM AUX 1		0600/0110/12.0		
	22-RACINE LOCKS & DAM		1200/0110/12.0		
	22-RACINE LOCKS & DAM AUX 1		0600/0110/12.0		
	23-GALLIPOLIS LOCKS & DAM		0600/0110/12.0		
	23-GALLIPOLIS LOCKS & DAM AUX 1		0360/0110/12.0		
	24-GREENUP LOCKS & DAM		1200/0110/12.0		
	24-GREENUP LOCKS & DAM AUX 1		0600/0110/12.0		
	25-CAPT ANT MELDAHL LOCKS & DAM		1200/0110/12.0		
	25-CAPT ANT MELDAHL LK&DAM AUX 1		0600/0110/12.0		
72-WILLOW ISLAND LOCKS & DAM		1200/0110/12.0			
72-WILLOW ISLAND LOCKS & DAM AUX		0600/0110/12.0			

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC H1	DISTRICT NAME HUNTINGTON	DIVISION NAME OHIO RIVER	MONTHS REPORTED											
			1/84			2/84			3/84					
RIVER/LOCK NAME			TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS CONMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC H1	DISTRICT NAME HUNTINGTON	DIVISION NAME OHIO RIVER	MONTHS REPORTED									
							1/84	2/84	3/84			
RIVER/LOCK NAME	TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGS TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
OHIO RIVER												
BELLEVILLE LOCKS & DAM AUX 1	XXX											
UPBOUND STATISTICS	16	0	1	17	19	26	45	18	0	2	20	31
DOWNBOUND STATISTICS	51	2	4	57	108	53	161	57	0	3	60	70
TOTALS	67	2	5	74	127	79	206	75	0	5	80	102
RACINE LOCKS & DAM	XXX											
UPBOUND STATISTICS	479	0	4	483	893	4308	5201	482	0	3	485	6155
DOWNBOUND STATISTICS	453	0	6	459	2510	2529	5039	455	0	5	460	3755
TOTALS	932	0	10	942	3403	6837	10240	937	0	8	945	9911
RACINE LOCKS & DAM AUX 1	XXX											
UPBOUND STATISTICS	18	0	3	21	22	29	51	21	0	3	24	35
DOWNBOUND STATISTICS	43	0	8	51	101	48	149	52	0	2	54	59
TOTALS	61	0	11	72	123	77	200	73	0	5	78	94
CALLIPOLIS LOCKS & DAM	XXX											
UPBOUND STATISTICS	496	0	28	524	758	3872	4630	818	0	4	822	5738
DOWNBOUND STATISTICS	489	0	43	532	2507	2124	4631	827	0	6	833	3098
TOTALS	985	0	71	1056	3265	5996	9261	1645	0	10	1655	8836
CALLIPOLIS LOCKS & DAM AUX 1	XXX	ONLY THIRD MONTH REPORTED										
UPBOUND STATISTICS	0	1	0	1	0	0	0	0	1	0	1	0
DOWNBOUND STATISTICS	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	0	1	0	1	0	0	0	0	1	0	1	0
GREENUP LOCKS & DAM	XXX											
UPBOUND STATISTICS	475	0	20	495	2939	1633	4572	483	0	1	484	2496
DOWNBOUND STATISTICS	495	0	22	517	750	3840	4590	505	0	0	505	5803
TOTALS	970	0	42	1012	3689	5473	9162	988	0	1	989	8299
GREENUP LOCKS & DAM AUX 1	XXX											
UPBOUND STATISTICS	93	52	62	207	196	50	246	154	32	0	186	73
DOWNBOUND STATISTICS	66	28	69	163	96	41	137	134	19	0	153	60
TOTALS	159	80	131	370	292	91	383	288	51	0	339	133

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC H1	DISTRICT NAME HUNTINGTON	DIVISION NAME OHIO RIVER	MONTHS REPORTED									
			1/84		2/84		3/84					
RIVER/LOCK NAME												
TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL (NAV, OPN, ETC)	TONNAGE (KTONS)	
OHIO RIVER												
CAPT AMT MELDAHL LOCKS & DAM												
UPBOUND STATISTICS	481	0	7	488	2739	2061	4800	483	0	0	483	3192
DOWNBOUND STATISTICS	461	1	10	472	773	3864	4637	462	0	0	462	5929
TOTALS	942	1	17	960	3512	5925	9437	945	0	0	945	9121
CAPT AMT MELDAHL LK&DAM AUX 1												
UPBOUND STATISTICS	18	10	2	30	15	35	50	21	7	0	28	54
DOWNBOUND STATISTICS	28	9	9	46	67	19	86	39	7	1	47	24
TOTALS	46	19	11	76	82	54	136	60	14	1	75	78
WILLOW ISLAND LOCKS & DAM												
UPBOUND STATISTICS	470	1	12	483	975	3974	4949	477	0	0	477	5574
DOWNBOUND STATISTICS	458	1	11	470	2290	2570	4860	467	0	1	468	3779
TOTALS	928	2	23	953	3265	6544	9809	944	0	1	945	9353
WILLOW ISLAND LOCKS & DAM AUX												
UPBOUND STATISTICS	39	0	16	55	57	34	91	56	0	0	56	46
DOWNBOUND STATISTICS	57	0	16	73	89	58	147	73	0	1	74	62
TOTALS	96	0	32	128	146	92	238	129	0	1	130	108

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC H1	DISTRICT NAME HUNTINGTON	DIVISION NAME OHIO RIVER	MONTHS REPORTED												3/84		
			1/842/84														
ALL TIMES EXPRESSED IN MINUTES																	
APPROACH			LOCK ENTRY			PROCESSING TIME			CHAMBER			EXIT			DELA	DELA	DELA
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	TOWS	TIME	MAX
															(TOWS)	(TOWS)	(ALL VSSLS)
KANAWHA RIVER																	
WINFIELD LOCKS & DAM MAIN 1	1	10	90	1	5	32	4	9	33	3	12	50	318	48217	151.6		
WINFIELD LOCKS & DAM MAIN 2	1	10	72	1	4	42	5	9	39	2	11	306	192	25271	131.6	560	
MARNET LOCKS & DAM MAIN 1	1	10	87	2	5	22	5	8	18	2	10	38	97	7274	75.0	203	
MARNET LOCKS & DAM MAIN 2	1	10	70	1	4	20	5	8	21	2	8	30	61	4792	78.6	180	
LONDON LOCKS & DAM MAIN 1	1	9	42	1	4	11	6	9	17	3	6	19	15	1918	127.9	736	
LONDON LOCKS & DAM MAIN 2	1	8	47	1	5	16	5	8	20	3	7	27	51	11458	224.7	625	
OHIO RIVER																	
BELLEVILLE LOCKS & DAM	1	18	58	2	9	25	8	12	40	2	8	31	356	15051	42.3	238	
BELLEVILLE LOCKS & DAM AUX 1	1	17	42	1	5	18	10	12	29	2	5	15	3	84	28.0	40	
RACINE LOCKS & DAM	1	19	702	2	11	70	7	10	51	3	10	36	380	35285	92.9	1175	
RACINE LOCKS & DAM AUX 1	1	13	38	3	7	17	10	11	25	4	7	17	3	61	20.3	36	
GALLIPOLIS LOCKS & DAM	1	10	79	2	11	52	5	10	50	1	18	114	751	163364	217.5	1319	
GALLIPOLIS LOCKS & DAM AUX 1	2	2	2	3	3	3	9	9	9	3	3	3	0	0	.0	0	
GREENUP LOCKS & DAM	1	15	86	3	9	38	5	11	38	1	9	25	302	11952	39.6	245	
GREENUP LOCKS & DAM AUX 1	1	10	37	1	5	17	6	10	21	1	5	15	6	84	14.0	27	
CAPT ANT MELDAHL LOCKS & DAM	1	19	56	2	10	45	6	13	35	2	11	34	406	33156	81.7	779	



TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
H2	LOUISVILLE	OHIO RIVER	1/84	2/84	3/84
<hr/>					
RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)			
GREEN/BARREN RIVER	21-LOCK & DAM 1	0600/0084/12.0			
	22-LOCK & DAM 2	0600/0084/12.0			
	23-LOCK & DAM 3	0138/0036/12.0			
OHIO RIVER	41-MARKLAND LOCKS & DAM	1200/0110/12.0			
	41-MARKLAND LOCKS & DAM AUX 1	0600/0110/12.0			
	42-MCALPINE LOCKS & DAM	1200/0110/12.0			
	42-MCALPINE LOCKS & DAM AUX 1	0600/0110/12.0			
	50-LOCK & DAM 50	0600/0110/12.0			
	51-LOCK & DAM 51	0600/0110/12.0			
	52-LOCK & DAM 52	1200/0110/12.0			
	52-LOCK & DAM 52 AUX 1	0600/0110/12.0			
	53-LOCK & DAM 53	0600/0110/12.0			
	75-CANNELTON LOCK & DAM	1200/0110/12.0			
	75-CANNELTON LOCK & DAM AUX	0600/0110/12.0			
	76-NEWBURN LOCK & DAM	1200/0110/12.0			
	76-NEWBURN LOCK & DAM AUX 1	0600/0110/12.0			
	77-UNIONTOWN LOCK & DAM	1200/0110/12.0			
	77-UNIONTOWN LOCK & DAM AUX 1	0600/0110/12.0			
	78-SMITHLAND LOCK & DAM	1200/0110/12.0			
	78-SMITHLAND LOCK & DAM AUX 1	1200/0110/12.0			



TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC H2	DISTRICT NAME LOUISVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED										
			1/84			2/84			3/84				
RIVER/LOCK NAME		TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
(NAV, OPN, ETC)													
OHIO RIVER													
LOCK & DAM 50		NO DATA RECORDED FOR THIS LOCK											
LOCK & DAM 51		NO DATA RECORDED FOR THIS LOCK											
LOCK & DAM 52		XXX											
UPBOUND STATISTICS		998	0	140	1138	4844	4414	9258	106	0	952	1058	6848
DOWNBOUND STATISTICS		1022	0	125	1147	2618	6802	9420	113	0	1004	1117	9882
TOTALS		2020	0	265	2285	7462	11216	18678	219	0	1956	2175	16731
LOCK & DAM 52 AUX 1		NO DATA RECORDED FOR THIS LOCK											
LOCK & DAM 53		NO DATA RECORDED FOR THIS LOCK											
CANNELTON LOCK & DAM		XXX											
UPBOUND STATISTICS		526	2	5	533	1575	3566	5141	529	0	0	529	5508
DOWNBOUND STATISTICS		490	0	11	501	1338	3538	4876	495	0	1	496	5098
TOTALS		1016	2	16	1034	2913	7104	10017	1024	0	1	1025	10606
CANNELTON LOCK & DAM AUX		XXX											
UPBOUND STATISTICS		18	0	6	24	45	14	59	22	0	1	23	21
DOWNBOUND STATISTICS		39	2	8	49	64	57	121	46	0	1	47	81
TOTALS		57	2	14	73	109	71	180	68	0	2	70	102
NEWBURGH LOCK & DAM		XXX											
UPBOUND STATISTICS		616	2	21	639	2234	3418	5652	617	0	0	617	5368
DOWNBOUND STATISTICS		603	2	26	631	1654	3915	5569	609	0	3	612	5639
TOTALS		1219	4	47	1270	3888	7333	11221	1226	0	3	1229	11007
NEWBURGH LOCK & DAM AUX 1		XXX											
UPBOUND STATISTICS		59	12	48	119	39	116	155	83	6	4	93	180
DOWNBOUND STATISTICS		66	10	47	123	130	26	156	89	4	1	94	37
TOTALS		125	22	95	242	169	142	311	172	10	5	187	218

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC H2	DISTRICT NAME LOUISVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED											
			1/84			2/84			3/84					
RIVER/LOCK NAME			TONS	VESSL RECTRN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECTRN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
(NAV, OPN, ETC)														
OHIO RIVER														
UNIONTOWN LOCK & DAM			xxx											
UPBOUND STATISTICS			702	4	9	715	4264	2984	7248	704	3	2	709	4766
DOWNBOUND STATISTICS			702	8	10	720	1268	5926	7194	705	6	0	711	8882
TOTALS			1404	12	19	1435	5532	8910	14442	1409	9	2	1420	13648
UNIONTOWN LOCK & DAM AUX 1			xxx											
UPBOUND STATISTICS			28	54	29	111	47	14	61	44	51	1	96	25
DOWNBOUND STATISTICS			18	49	24	91	22	14	36	31	46	3	80	19
TOTALS			46	103	53	202	69	28	97	75	97	4	176	44
SMITHLAND LOCK & DAM			xxx											
UPBOUND STATISTICS			114	0	15	129	724	278	1002	127	0	0	127	475
DOWNBOUND STATISTICS			698	0	26	724	991	6087	7078	709	0	5	714	9277
TOTALS			812	0	41	853	1715	6365	8080	836	0	5	841	9753
SMITHLAND LOCK & DAM AUX 1			xxx											
UPBOUND STATISTICS			690	5	32	727	4572	2525	7097	710	1	4	715	4022
DOWNBOUND STATISTICS			123	3	13	139	313	870	1183	132	3	2	137	1349
TOTALS			813	8	45	866	4885	3395	8280	842	4	6	852	5371



TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME			DIVISION NAME			MONTHS REPORTED											
H2	LOUISVILLE			OHIO RIVER			1/84                      2/84                      3/84											
-----																		
ALL TIMES EXPRESSED IN MINUTES																		
APPROACH			LOCK PROCESSING TIME									: DELAYED DELAY			DELAY	DELAY		
ENTRY			CHAMBER									: TOWS			TIME	AVG	MAX	
MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	:	(TOWS)	(TOWS)	(ALL VSSLS)
-----																		
OHIO RIVER																		
NEWMURGH LOCK & DAM AUX 1    1   13   73    1   4   15    5   7   19    1   8   30 :    4    77    19.3    40																		
UNIONTOWN LOCK & DAM            1   18   95    1   7   30    5   9   52    1   7   73 :    707   52630    74.4   1361																		
UNIONTOWN LOCK & DAM AUX 1   1    7   40    1   2   17    5   9   24    1   2   14 :    2    33    16.5    38																		
SMITHLAND LOCK & DAM            1   17   85    1   9   30    5   10   65    2   8   35 :    152   16927   111.4   805																		
SMITHLAND LOCK & DAM AUX 1   1   13   55    1   9   30    5   10   70    2   8   65 :    132   11609    87.9    715																		

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC H3	DISTRICT NAME NASHVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED		
			1/84	2/84	3/84
<hr/>					
RIVER	LCODE-LOCK NAME		LEN/WID/DRAFT (FT/FT/FT)		
CLINCH RIVER	11-MELTON HILL LOCK		0400/0075/11.0		
CUMBERLAND RIVER	21-BARKLEY LOCK		0800/0110/11.0		
	22-CHEATHAM LOCK		0800/0110/11.0		
	23-CORDELL HULL LOCK		0400/0084/11.0		
	24-OLD HICKORY LOCK		0400/0084/11.0		
TENNESSEE RIVER	01-KENTUCKY LOCK		0600/0110/11.0		
	02-PICKWICK LANDING LOCK		1000/0110/11.0		
	02-PICKWICK LANDING LOCK AUX		0600/0110/11.0		
	03-WILSON LOCK		0600/0110/11.0		
	03-WILSON LOCK AUX		0292/0060/11.0		
	04-GEN JOS WHEELER LOCK		0600/0110/11.0		
	04-GEN JOS WHEELER LK	AUX1	0400/0060/11.0		
	05-GUNTERSVILLE LOCK		0600/0110/11.0		
	05-GUNTERSVILLE LOCK	AUX 1	0360/0060/11.0		
	06-NICKAJAC LOCK		0600/0110/11.0		
	07-CHICKAMAUGA LOCK		0360/0060/11.0		
	08-WATTS BAR LOCK		0360/0060/11.0		
	09-FORT LOUDON LOCK		0360/0060/11.0		

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC H3	DISTRICT NAME NASHVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED											
			1/84			2/84			3/84					
RIVER/LOCK NAME			TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARCS EMPTY	BARCS FULL	BARCS TOTAL	LOCKGS CORNER	LOCKGS RECRTN	LOCKGS OTHER (NAV, OPN, ETC)	LOCKGS TOTAL	TONNAGE (KTONS)
CLINCH RIVER														
MELTON HILL LOCK			XXX											
UPBOUND STATISTICS			0	3	0	3	0	0	0	2	2	1	5	0
DOWNBOUND STATISTICS			0	3	0	3	0	0	0	2	2	1	5	0
TOTALS			0	6	0	6	0	0	0	4	4	2	10	0
CUMBERLAND RIVER														
BARKLEY LOCK			XXX											
UPBOUND STATISTICS			42	3	0	45	32	222	254	43	1	3	47	324
DOWNBOUND STATISTICS			75	6	1	82	638	45	683	100	6	1	107	59
TOTALS			117	9	1	127	670	267	937	143	7	4	154	383
CHEATHAM LOCK			XXX											
UPBOUND STATISTICS			89	3	1	93	26	438	464	92	3	2	97	666
DOWNBOUND STATISTICS			89	3	3	95	419	56	475	97	3	3	103	72
TOTALS			178	6	4	188	445	494	939	189	6	5	200	738
CORDELL HULL LOCK			XXX											
UPBOUND STATISTICS			9	0	2	11	25	1	26	13	0	2	15	0
DOWNBOUND STATISTICS			14	1	0	15	3	26	29	15	1	2	18	36
TOTALS			23	1	2	26	28	27	55	28	1	4	33	37
OLD HICKORY LOCK			XXX											
UPBOUND STATISTICS			34	34	14	82	11	50	61	52	35	6	93	109
DOWNBOUND STATISTICS			32	34	21	87	64	8	72	59	38	11	108	9
TOTALS			66	68	35	169	75	58	133	111	73	17	201	118
TENNESSEE RIVER														
KENTUCKY LOCK			XXX											
UPBOUND STATISTICS			425	3	33	461	864	3286	4150	705	4	1	710	4851
DOWNBOUND STATISTICS			391	6	45	442	2639	1119	3758	659	9	4	672	1532
TOTALS			816	9	78	903	3503	4405	7908	1364	13	5	1382	6384

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC N3	DISTRICT NAME NASHVILLE	DIVISION NAME OHIO RIVER						MONTHS REPORTED						
								1/84	2/84			3/84		
RIVER/LOCK NAME		TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL (NAV, OPN, ETC)	TONNAGE (KTONS)	
TENNESSEE RIVER														
PICKNICK LANDING LOCK		NO DATA RECORDED FOR THIS LOCK												
PICKNICK LANDING LOCK AUX		XXX												
UPBOUND STATISTICS		241	6	3	250	234	2283	2517	413	10	22	445	3294	
DOWNBOUND STATISTICS		247	7	8	262	2197	454	2651	431	12	22	465	645	
TOTALS		488	13	11	512	2431	2737	5168	844	22	44	910	3940	
WILSON LOCK		XXX												
UPBOUND STATISTICS		139	12	55	206	244	1035	1279	245	14	8	267	1492	
DOWNBOUND STATISTICS		158	15	45	218	889	433	1322	267	15	9	291	593	
TOTALS		297	27	100	424	1133	1468	2601	512	29	17	558	2085	
WILSON LOCK AUX		NO DATA RECORDED FOR THIS LOCK												
GEN JOS WHEELER LOCK		XXX												
UPBOUND STATISTICS		127	16	3	146	219	995	1214	203	20	6	229	1399	
DOWNBOUND STATISTICS		134	17	5	156	860	411	1271	212	15	7	234	559	
TOTALS		261	33	8	302	1079	1406	2485	415	35	13	463	1958	
GEN JOS WHEELER LK		AUX1	XXX											
UPBOUND STATISTICS		0	20	1	21	0	0	0	2	13	2	17	0	
DOWNBOUND STATISTICS		0	19	0	19	0	0	0	1	18	1	20	0	
TOTALS		0	39	1	40	0	0	0	3	31	3	37	0	
GUNTERSVILLE LOCK		XXX												
UPBOUND STATISTICS		131	49	2	182	340	774	1114	188	53	4	245	1104	
DOWNBOUND STATISTICS		141	52	4	197	708	481	1189	201	51	4	256	639	
TOTALS		272	101	6	379	1048	1255	2303	389	104	8	501	1744	
GUNTERSVILLE LOCK		AUX 1	XXX											
UPBOUND STATISTICS		2	47	0	49	0	2	2	3	42	1	46	2	
DOWNBOUND STATISTICS		1	40	0	41	1	0	1	1	30	1	32	0	
TOTALS		3	87	0	90	1	2	3	4	72	2	78	2	

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC H3	DISTRICT NAME NASHVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED									
			1/84			2/84			3/84			
-----												
RIVER/LOCK NAME	TONS	VESSL	VESSL	VESSL	BARGS	BARGS	BARGES	LOCKGS	LCKGES	LCKGES	LCKGES	TONNAGE (KTONS)
		RECRTN	OTHER	TOTAL	EMPTY	FULL	TOTAL	COMMER	RECRTN	OTHER	TOTAL	
(NAV, OPN, ETC)												
-----												
TENNESSEE RIVER												
NICKAJAC LOCK	XXX											
UPBOUND STATISTICS	134	5	10	149	338	616	954	186	6	4	196	837
DOWNBOUND STATISTICS	134	11	9	154	518	402	920	179	14	3	196	539
TOTALS	268	16	19	303	856	1018	1874	365	20	7	392	1376
CHICKAMAUGA LOCK	XXX											
UPBOUND STATISTICS	51	21	5	77	38	254	292	183	64	94	341	335
DOWNBOUND STATISTICS	49	22	7	78	203	84	287	188	56	96	340	113
TOTALS	100	43	12	155	241	338	579	371	120	190	681	448
WATTS BAR LOCK	XXX											
UPBOUND STATISTICS	38	14	3	55	57	117	174	130	46	16	192	162
DOWNBOUND STATISTICS	37	12	4	53	77	99	176	136	38	17	191	128
TOTALS	75	26	7	108	134	216	350	266	84	33	383	291
FORT LOUDON LOCK	XXX											
UPBOUND STATISTICS	23	28	7	58	8	52	60	49	37	11	97	76
DOWNBOUND STATISTICS	26	33	5	64	44	29	73	54	46	10	110	38
TOTALS	49	61	12	122	52	81	133	103	83	21	207	115

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC #3	DISTRICT NAME NASHVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED															
			1/842/843/84															
			ALL TIMES EXPRESSED IN MINUTES															
			APPROACH			LOCK ENTRY			PROCESSING TIME CHAMBER			EXIT			: DELAYED	DELAY	DELAY	DELAY
MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: TOWS	TIME	AVG	MAX			
CLINCH RIVER																		
MELTON HILL LOCK			1	5	12	1	1	3	10	14	19	1	2	3 :	0	0	.0	0
CUMBERLAND RIVER																		
BARKLEY LOCK			1	15	60	1	10	26	6	15	26	1	11	32 :	11	437	39.7	77
CHEATHAM LOCK			1	9	66	2	10	36	7	18	34	2	8	54 :	23	6368	276.9	820
CORDELL HULL LOCK			1	8	63	1	10	49	15	20	36	2	11	62 :	5	68	13.6	50
OLD HICKORY LOCK			1	4	25	1	5	32	6	16	36	1	6	49 :	4	267	66.8	195
TENNESSEE RIVER																		
KENTUCKY LOCK			1	9	125	1	13	50	6	17	44	1	18	114 :	601	134754	224.2	1140
PICKWICK LANDING LOCK			NO DATA RECORDED FOR THIS LOCK															
PICKWICK LANDING LOCK AUX			1	11	180	2	12	44	6	16	44	2	19	114 :	268	58685	219.0	1225
WILSON LOCK			1	10	72	3	14	90	11	24	81	1	17	138 :	100	11234	112.3	398
WILSON LOCK AUX			NO DATA RECORDED FOR THIS LOCK															
GEN JOS WHEELER LOCK			1	14	98	2	13	47	6	14	109	3	18	69 :	74	7828	105.8	1087
GEN JOS WHEELER LK	AUX		1	10	28	2	4	11	10	12	15	2	5	11 :	0	0	.0	90
GUNTERSVILLE LOCK			1	10	139	1	11	65	10	15	40	1	16	131 :	50	3892	77.8	557
GUNTERSVILLE LOCK	AUX		1	3	15	1	2	14	10	13	26	1	2	5 :	0	0	.0	19
NICKAJAC LOCK			1	10	68	2	12	39	10	14	25	3	13	44 :	45	2892	64.3	167

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC H3	DISTRICT NAME NASHVILLE			DIVISION NAME OHIO RIVER			MONTHS REPORTED													
							1/84			2/84			3/84							
ALL TIMES EXPRESSED IN MINUTES																				
APPROACH			LOCK ENTRY			PROCESSING TIME CHAMBER			EXIT			: DELAYED		DELAY		DELAY				
												: TONS		TIME		AVG		MAX		
MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	:		(TONS)	(TONS)	(ALL VSSLS)				
TENNESSEE RIVER																				
CHICKAMAUGA LOCK			1	6	125	1	5	33	6	12	70	1	9	49 :	34	16491	485.0	1878		
HATTS BAR LOCK			1	9	70	1	6	23	12	17	78	1	12	78 :	12	1672	139.3	455		
FORT LOUDON LOCK			1	11	66	1	4	18	7	20	32	1	9	96 :	9	995	110.6	491		

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER	MONTHS REPORTED		
			1/84	2/84	3/84
<hr/>					
RIVER	LCODE-LOCK NAME		LEN/WID/DRAFT (FT/FT/FT)		
ALLEGHENY RIVER	42-LOCK & DAM 2		0360/0056/13.0		
	43-LOCK & DAM 3		0360/0056/13.0		
	44-LOCK & DAM 4		0360/0056/13.0		
	45-LOCK & DAM 5		0360/0056/13.0		
	46-LOCK & DAM 6		0360/0056/13.0		
	47-LOCK & DAM 7		0360/0056/13.0		
	48-LOCK & DAM 8		0360/0056/13.0		
	49-LOCK & DAM 9		0360/0056/13.0		
	MONONGAHELA RIVER	22-LOCK & DAM 2		0720/0110/13.0	
22-LOCK & DAM 2 AUX 1			0360/0056/13.0		
23-LOCK & DAM 3			0720/0056/13.0		
23-LOCK & DAM 3 AUXILIARY 1			0360/0056/13.0		
24-LOCK & DAM 4			0720/0056/13.0		
24-LOCK & DAM 4 AUXILIARY 1			0360/0056/13.0		
25-MAXWELL LOCK & DAM			0720/0084/13.0		
25-MAXWELL LOCK & DAM AUX 1			0720/0084/13.0		
27-LOCK & DAM 7			0360/0056/13.0		
28-LOCK & DAM 8			0360/0056/13.0		
29-MORGANTOWN LOCK & DAM			0600/0084/13.0		
30-HILDEBRAND LOCK & DAM			0600/0084/13.0		
31-OPEKISKA LOCK & DAM			0600/0084/13.0		
OHIO RIVER	01-ENSNORTH LOCK & DAM		0600/0110/13.0		
	01-ENSNORTH LOCK & DAM AUX 1		0360/0056/13.0		
	02-DASHIELDS LOCK & DAM		0600/0110/13.0		
	02-DASHIELDS LOCK & DAM AUX 1		0360/0056/13.0		
	03-MONTGOMERY LOCK & DAM		0600/0110/13.0		
	03-MONTGOMERY LOCK & DAM AUX 1		0360/0056/13.0		
	04-NEW CUMBERLAND LOCK & DAM		1200/0110/13.0		
	04-NEW CUMBERLAND LK & DAM AUX 1		0600/0110/13.0		
	05-PIKE ISLAND LOCK & DAM		1200/0110/13.0		
	05-PIKE ISLAND LOCK & DAM AUX 1		0600/0110/13.0		
	71-HANNIBAL LOCKS & DAM		1200/0110/13.0		
	71-HANNIBAL LOCKS & DAM AUX 1		0600/0110/13.0		

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

[illegible]

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER	MONTHS REPORTED										
			1/84			2/84			3/84				
RIVER/LOCK NAME		TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS) (NAV, OPN, ETC)
ALLEGHENY RIVER													
LOCK & DAM 9		***	ONLY THIRO MONTH REPORTED										
UPBOUND STATISTICS		0	0	0	0	0	0	0	0	0	0	0	0
DOWNBOUND STATISTICS		0	0	0	0	0	0	0	0	0	1	1	0
TOTALS		0	0	0	0	0	0	0	0	0	1	1	0
MONONGAHELA RIVER													
LOCK & DAM 2		***											
UPBOUND STATISTICS		530	0	12	542	1932	1439	3371	591	0	1	592	1935
DOWNBOUND STATISTICS		539	0	12	551	925	2479	3404	611	0	1	612	2591
TOTALS		1069	0	24	1093	2857	3918	6775	1202	0	2	1204	4526
LOCK & DAM 2 AUX 1		***											
UPBOUND STATISTICS		114	3	46	163	122	39	161	162	2	0	164	42
DOWNBOUND STATISTICS		79	3	76	158	54	49	103	158	2	0	160	55
TOTALS		193	6	122	321	176	88	264	320	4	0	324	98
LOCK & DAM 3		***											
UPBOUND STATISTICS		899	0	6	905	3937	581	4518	900	0	0	900	700
DOWNBOUND STATISTICS		904	0	4	908	302	4230	4532	904	0	1	905	4198
TOTALS		1803	0	10	1813	4239	4811	9050	1804	0	1	1805	4899
LOCK & DAM 3 AUXILIARY 1		***											
UPBOUND STATISTICS		151	0	109	260	184	45	229	261	0	1	262	53
DOWNBOUND STATISTICS		125	0	130	255	53	136	189	250	0	1	251	133
TOTALS		276	0	239	515	237	181	418	511	0	2	513	187
LOCK & DAM 4		***											
UPBOUND STATISTICS		754	0	4	758	3547	474	4021	776	0	0	776	509
DOWNBOUND STATISTICS		790	0	4	794	201	3895	4096	797	0	1	798	3873
TOTALS		1544	0	8	1552	3748	4369	8117	1573	0	1	1574	4383

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC #4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER					MONTHS REPORTED						
							1/84	2/84			3/84		
RIVER/LOCK NAME		TOMS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS CONNER	LCKGES RECRTN (NAV, OPN, ETC)	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
MONONGAHELA RIVER													
LOCK & DAM 4 AUXILIARY 1		XXX											
UPBOUND STATISTICS		54	2	64	120	97	5	102	119	2	2	123	4
DOWNBOUND STATISTICS		34	2	53	89	26	32	58	88	2	2	92	28
TOTALS		88	4	117	209	123	37	160	207	4	4	215	32
MAXWELL LOCK & DAM		XXX											
UPBOUND STATISTICS		583	0	5	588	2822	372	3194	589	0	1	590	406
DOWNBOUND STATISTICS		197	0	7	204	77	950	1027	202	0	0	202	937
TOTALS		780	0	12	792	2899	1322	4221	791	0	1	792	1343
MAXWELL LOCK & DAM AUX 1		XXX											
UPBOUND STATISTICS		151	0	6	157	709	84	793	157	0	0	157	85
DOWNBOUND STATISTICS		541	0	3	544	144	2838	2982	544	0	3	547	2803
TOTALS		692	0	9	701	853	2922	3775	701	0	3	704	2888
LOCK & DAM 7		XXX											
UPBOUND STATISTICS		640	2	23	665	2537	399	2936	1194	3	3	1200	440
DOWNBOUND STATISTICS		627	2	35	664	248	2667	2915	1188	3	5	1196	2558
TOTALS		1267	4	58	1329	2785	3066	5851	2382	6	8	2396	2998
LOCK & DAM 8		XXX											
UPBOUND STATISTICS		571	0	15	586	2149	403	2552	1040	0	3	1043	449
DOWNBOUND STATISTICS		560	0	26	586	265	2291	2556	1049	0	3	1052	2218
TOTALS		1131	0	41	1172	2414	2694	5108	2089	0	6	2095	2668
MORGANTOWN LOCK & DAM		XXX											
UPBOUND STATISTICS		44	7	7	58	147	12	159	53	6	0	59	7
DOWNBOUND STATISTICS		41	6	8	55	2	134	136	51	5	0	56	137
TOTALS		85	13	15	113	149	146	295	104	11	0	115	144
HILDEBRAND LOCK & DAM		XXX											
UPBOUND STATISTICS		17	0	0	17	65	0	65	18	0	0	18	0
DOWNBOUND STATISTICS		16	0	1	17	3	60	63	18	0	0	18	66
TOTALS		33	0	1	34	68	60	128	36	0	0	36	66

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER	MONTHS REPORTED										
			1/84			2/84			3/84				
RIVER/LOCK NAME		TONS	VESSL RECTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECTN	LCKGES OTHER	LCKGES TOTAL (NAV, OPN, ETC)	TONNAGE (KTONS)
MONONGAHELA RIVER													
OPEKISKA LOCK & DAM		###											
UPBOUND STATISTICS		1	1	1	3	3	0	3	2	1	1	4	0
DOWNBOUND STATISTICS		2	1	0	3	4	0	4	2	1	1	4	0
TOTALS		3	2	1	6	7	0	7	4	2	2	8	0
OHIO RIVER													
ENSHORTH LOCK & DAM		###											
UPBOUND STATISTICS		611	0	45	656	1419	2246	3665	721	0	3	724	2790
DOWNBOUND STATISTICS		596	0	56	652	1523	2074	3597	705	0	2	707	2273
TOTALS		1207	0	101	1308	2942	4320	7262	1426	0	5	1431	5063
ENSHORTH LOCK & DAM AUX 1		###											
UPBOUND STATISTICS		73	0	46	119	64	57	121	127	0	2	129	62
DOWNBOUND STATISTICS		65	0	64	129	69	37	106	135	0	3	138	46
TOTALS		138	0	110	248	133	94	227	262	0	5	267	108
DASHIELDS LOCK & DAM		###											
UPBOUND STATISTICS		582	0	36	618	1389	2325	3714	696	0	0	696	2855
DOWNBOUND STATISTICS		585	0	41	626	1538	2133	3671	698	0	0	698	2295
TOTALS		1167	0	77	1244	2927	4458	7385	1394	0	0	1394	5151
DASHIELDS LOCK & DAM AUX 1		###											
UPBOUND STATISTICS		79	0	50	129	71	37	108	126	0	1	127	41
DOWNBOUND STATISTICS		64	0	58	122	49	37	86	121	0	2	123	45
TOTALS		143	0	108	251	120	74	194	247	0	3	250	87
MONTGOMERY LOCK & DAM		###											
UPBOUND STATISTICS		539	0	18	557	1247	2469	3716	676	0	0	676	3199
DOWNBOUND STATISTICS		543	0	17	560	1826	1845	3671	675	0	1	676	2093
TOTALS		1082	0	35	1117	3073	4314	7387	1351	0	1	1352	5292

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER	MONTHS REPORTED											
			1/84			2/84			3/84					
RIVER/LOCK NAME		TOMS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)	
(NAV, OPN, ETC)														
OHIO RIVER														
***														
***			1	71	150	71	24	95	150	1	1	152	28	
***			1	71	146	56	29	85	144	1	1	146	33	
***			1	71	297	127	53	180	294	2	2	298	62	
***														
***			452	1	35	488	515	3459	3974	472	0	0	472	4924
***			474	1	24	499	2717	1351	4068	489	0	0	489	1674
***			111	0	0	111	1232	4810	8042	961	0	0	961	2511
***														
***			ONLY SECOND AND THIRD MONTHS REPORTED											
***			1	19	5	161	74	235	91	0	0	91	106	
***			59	1	19	5	158	84	193	85	1	1	87	85
***			141	0	18	159	158	428	176	1	1	178	191	
***														
***			474	0	11	485	341	4343	4684	484	0	0	484	6117
***			467	0	95	562	3033	1599	4632	473	0	0	473	2155
***			941	0	106	1047	3374	5942	9316	957	0	0	957	8374
***														
***			ONLY SECOND AND THIRD MONTHS REPORTED											
***			44	0	25	69	85	48	133	66	0	0	66	66
***			74	0	10	84	158	84	242	84	0	0	84	90
***			118	0	35	153	243	132	375	150	0	0	150	147
***														
***			441	0	14	455	961	3952	4913	447	0	0	447	5573
***			424	0	12	436	2209	2563	4772	431	0	0	431	3513
***			365	0	26	391	3170	6515	9685	878	0	0	878	9087
***														
***			ONLY SECOND AND THIRD MONTHS REPORTED											
***			25	0	0	32	50	21	71	31	0	0	31	26
***			57	0	11	48	71	59	130	48	0	0	48	56
***			62	0	12	80	121	80	201	79	0	0	79	83

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH			DIVISION NAME OHIO RIVER			MONTHS REPORTED										
							1/84			2/84			3/84				
							ALL TIMES EXPRESSED IN MINUTES										
							APPROACH			LOCK ENTRY			PROCESSING TIME CHAMBER			EXIT	
MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	:	TOMS	TIME	(TOMS)	(TOMS)	MAX
ALLEGHENY RIVER																	
LOCK & DAM 2	1	7	28	2	6	25	6	7	18	2	9	47	:	50	2028	40.6	134
LOCK & DAM 3	1	8	33	1	5	35	5	9	22	1	9	33	:	54	3197	59.2	192
LOCK & DAM 4	1	7	35	1	5	15	7	9	27	2	10	40	:	15	612	40.8	102
LOCK & DAM 5	2	2	5	2	2	5	8	8	9	2	4	11	:	3	18	6.0	8
LOCK & DAM 6	5	5	5	5	5	5	8	8	8	5	6	10	:	0	0	.0	0
LOCK & DAM 7	5	5	7	4	5	6	9	9	9	5	9	12	:	0	0	.0	0
LOCK & DAM 8	5	5	5	5	7	10	10	10	10	5	5	5	:	0	0	.0	0
LOCK & DAM 9	2	2	2	2	2	2	7	7	7	4	4	4	:	0	0	.0	0
MONONGAHELA RIVER																	
LOCK & DAM 2	1	11	54	2	5	25	5	11	42	1	8	63	:	377	14375	38.1	215
LOCK & DAM 2 AUX 1	2	9	54	1	2	7	5	6	15	1	2	14	:	6	82	13.7	22
LOCK & DAM 3	1	11	44	1	5	22	7	10	28	2	6	22	:	953	36174	38.0	246
LOCK & DAM 3 AUXILIARY 1	1	8	23	1	3	14	5	8	17	1	3	17	:	41	671	16.4	44
LOCK & DAM 4	1	10	56	1	6	55	5	10	31	1	7	32	:	672	24604	36.6	743
LOCK & DAM 4 AUXILIARY 1	2	11	49	1	3	14	5	10	60	1	4	24	:	2	54	27.0	44
MAXWELL LOCK & DAM	1	10	54	2	7	58	5	12	45	2	9	45	:	109	2359	21.6	130

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

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EROC NM	DISTRICT NAME PITTSBURGH			DIVISION NAME OHIO RIVER			MONTHS REPORTED											
							1/84					2/84						
ALL TIMES EXPRESSED IN MINUTES																		
APPROACH			LOCK ENTRY			PROCESSING TIME CHAMBER			EXIT			: DELAYED		DELAY	DELAY			
MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: TONS	TIME	AVG	MAX	(ALL VSSLS)		
													(TONS)	(TONS)				
MONONGAHELA RIVER																		
MAXWELL LOCK & DAM AUX 1			1	13	58	2	8	47	6	13	60	2	9	34 :	74	1960	26.5	600
LOCK & DAM 7			1	6	65	1	5	57	5	6	44	1	10	51 :	695	42868	61.7	1114
LOCK & DAM 8			1	5	31	1	4	23	5	6	26	1	10	74 :	457	21584	47.2	362
MORGANTOWN LOCK & DAM			4	4	5	4	5	10	5	11	30	5	5	10 :	0	0	.0	0
HILDEBRAND LOCK & DAM			2	4	13	2	3	10	10	11	30	2	3	10 :	0	0	.0	0
OPEKISKA LOCK & DAM			2	7	18	2	3	5	10	12	16	3	4	5 :	0	0	.0	0
OHIO RIVER																		
ENSNORTH LOCK & DAM			1	12	78	1	7	44	7	14	59	3	10	81 :	642	50151	78.1	1840
ENSNORTH LOCK & DAM AUX 1			1	9	39	1	4	12	5	9	24	2	4	30 :	18	741	41.2	141
DASHIELDS LOCK & DAM			1	13	73	1	8	58	6	12	44	1	11	71 :	588	40816	69.4	556
DASHIELDS LOCK & DAM AUX 1			1	13	45	1	4	18	5	7	32	1	3	14 :	15	448	29.9	148
MONTGOMERY LOCK & DAM			1	10	60	2	9	47	6	15	53	2	13	92 :	621	56678	91.3	568
MONTGOMERY LOCK & DAM AUX 1			1	9	44	1	4	16	7	11	30	1	5	20 :	12	415	34.6	272
NEW CUMBERLAND LOCK & DAM			1	17	59	1	6	51	5	15	42	1	11	34 :	332	13888	41.8	245
NEW CUMBERLAND LK & DAM AUX			2	14	40	1	3	15	8	12	24	1	9	20 :	13	261	20.1	65
PIKE ISLAND LOCK & DAM			1	14	53	1	9	37	5	14	42	2	10	25 :	337	15501	46.0	224
PIKE ISLAND LOCK & DAM AUX 1			3	11	48	2	5	20	5	12	19	3	9	25 :	4	44	11.0	20

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH			DIVISION NAME OHIO RIVER							MONTHS REPORTED									
											1/84			2/84				3/84		
ALL TIMES EXPRESSED IN MINUTES																				
APPROACH			LOCK PROCESSING TIME							: DELAYED DELAY			DELAY	DELAY						
			ENTRY			CHAMBER				EXIT			: TONS	TIME	AVG	MAX				
MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	:		(TONS)	(TONS)	(ALL VSSLS)				
OHIO RIVER																				
HANNIBAL LOCKS & DAM			1	16	60	1	11	29	5	16	45	1	11	30	:	335	16193	48.3	205	
HANNIBAL LOCKS & DAM AUX 1			5	14	45	1	5	13	10	15	20	5	9	17	:	2	50	25.0	27	

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
K3	JACKSONVILLE	SOUTH ATLANTIC	1/84	2/84	3/84

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
CROSS FLA BRG CNL	11-HENRY HOLLAND BUCKMAN LOCK	0400/0084/15.0
	12-EUREKA LOCK	0600/0084/15.0
	13-INGLIS LOCK	0600/0084/15.0
CANAVERAL HARBOR	21-CANAVERAL LOCK	0600/0090/15.0
OKEECHOBEE WATERWAY	01-ST LUCIE LOCK & DAM	0275/0050/14.0
	02-MOORE HAVEN LOCK	0275/0050/11.0
	03-ORTONA LOCK & DAM	0275/0050/12.0
	04-W P FRANKLIN LCK & CTRL STRCT	0450/0056/14.0
	05-PORT MAYACA LOCK	0450/0056/14.0
OKLAHAMA RIVER	31-MOSS BLUFF LOCK & DAM	0156/0030/XXXX

NO DATA RECORDED ON SUMMARY FILE FOR THIS PERIOD

NO DATA RECORDED ON LOCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC KS	DISTRICT NAME MOBILE	DIVISION NAME SOUTH ATLANTIC	MONTHS REPORTED		
			1/84	2/84	3/84
-----					
RIVER	LCODE-LOCK NAME		LEN/WID/DRAFT (FT/FT/FT)		
ALABAMA-COOSA RIVERS	11-CLAIBORNE LOCK & DAM		0600/0084/12.0		
	12-MILLERS FERRY LOCK & DAM		0600/0084/12.0		
	13-JONES BLUFF LOCK & DAM		0600/0084/12.0		
APLCH/CHTCH/FLNT RI	21-JIM WOODRUFF LOCK & DAM		0450/0082/12.0		
	22-GEORGE W ANDREWS LOCK & DAM		0450/0082/12.0		
	23-WALTER F GEORGE LOCK & DAM		0450/0082/12.0		
BIKWAR/TOMBIGEE RI	01-COFFEEVILLE LOCK		0600/0110/12.0		
	02-BENEFICIAL LOCK & DAM		0600/0110/12.0		
	03-WARRIOR LOCK & DAM		0600/0110/12.0		
	04-WILLIAM BACON OLIVER LY & DM		0600/0095/12.0		
	05-HOLT LOCK & DAM		0600/0110/12.0		
PEARL RIVER	06-JOHN HOLLIS BANKHEAD LY & DM		0600/0110/12.0		
	31-LOCK 1		0310/0065/ 9.0		
	32-LOCK 2		0310/0065/ 9.0		
	33-LOCK 3		0310/0065/ 9.0		
TENN TOMBIGEE WATERWAY	41-GAINESVILLE LOCK & DAM		0600/0110/12.0		
	42-ALICEVILLE LOCK & DAM		0600/0110/12.0		
	43-COLUMBUS LOCK & DAM		0600/0110/12.0		
	44-ABERDEEN LOCK & DAM		0600/0110/12.0		

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC K5	DISTRICT NAME MOBILE	DIVISION NAME SOUTH ATLANTIC	MONTHS REPORTED										
			1/84			2/84			3/84				
RIVER/LOCK NAME		TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
(NAV, OPN, ETC)													
ALABAMA-COOSA RIVERS													
CLAIBORNE LOCK & DAM		XXX	ONLY SECOND AND THIRD MONTHS REPORTED										
UPBOUND STATISTICS		57	70	1	128	204	3	207	60	69	4	133	3
DOWNBOUND STATISTICS		54	72	0	126	2	195	197	56	71	5	132	274
TOTALS		111	142	1	254	206	198	404	116	140	9	265	278
MILLERS FERRY LOCK & DAM		XXX	ONLY SECOND AND THIRD MONTHS REPORTED										
UPBOUND STATISTICS		28	27	2	57	97	5	102	31	23	0	54	6
DOWNBOUND STATISTICS		26	28	0	54	1	90	91	28	24	1	53	102
TOTALS		54	55	2	111	98	95	193	59	47	1	107	109
JONES BLUFF LOCK & DAM		XXX	ONLY SECOND AND THIRD MONTHS REPORTED										
UPBOUND STATISTICS		2	6	0	8	1	1	2	4	5	0	9	2
DOWNBOUND STATISTICS		3	7	0	10	1	2	3	5	6	0	11	2
TOTALS		5	13	0	18	2	3	5	9	11	0	20	4
APLCH/CHTCH/FLNT RI													
JIM WOODRUFF LOCK & DAM		XXX	ONLY SECOND AND THIRD MONTHS REPORTED										
UPBOUND STATISTICS		64	8	6	78	143	38	181	73	8	5	86	82
DOWNBOUND STATISTICS		68	17	4	89	43	150	193	74	14	3	91	90
TOTALS		132	25	10	167	186	188	374	147	22	8	177	172
GEORGE W ANDREWS LOCK & DAM		XXX	ONLY SECOND AND THIRD MONTHS REPORTED										
UPBOUND STATISTICS		14	38	2	54	4	18	22	18	32	2	52	32
DOWNBOUND STATISTICS		14	46	0	60	15	5	20	16	34	2	52	6
TOTALS		28	84	2	114	19	23	42	34	66	4	104	39
WALTER F GEORGE LOCK & DAM		XXX	ONLY SECOND AND THIRD MONTHS REPORTED										
UPBOUND STATISTICS		7	3	1	11	0	10	10	10	1	3	14	17
DOWNBOUND STATISTICS		7	10	0	17	10	0	10	8	9	3	20	0
TOTALS		14	13	1	28	10	10	20	18	10	6	34	17



TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC KS	DISTRICT NAME MOBILE	DIVISION NAME SOUTH ATLANTIC	MONTHS REPORTED									
			1/84		2/84		3/84					
-----												
RIVER/LOCK NAME	TOWS	VESSL	VESSL	VESSL	BARGS	BARGS	BARGES	LOCKGS	LCKGES	LCKGES	LCKGES	TONNAGE (KTONS)
		RECTN	OTHER	TOTAL	EMPTY	FULL	TOTAL	COMMER	RECTN	OTHER	TOTAL	
(NAV, OPN, ETC)												
-----												
PEARL RIVER												
LOCK 2	NO DATA RECORDED FOR THIS LOCK											
LOCK 3	NO DATA RECORDED FOR THIS LOCK											
TENN TOMBIGBEE WATERWAY												
GAINESVILLE LOCK & DAM	***	ONLY SECOND AND THIRD MONTHS REPORTED										
UPBOUND STATISTICS	11	2	1	14	36	2	38	14	1	0	15	3
DOWNBOUND STATISTICS	12	2	1	15	3	37	40	13	2	1	16	39
TOTALS	23	4	2	29	39	39	78	27	3	1	31	42
ALICEVILLE LOCK & DAM	***	ONLY SECOND AND THIRD MONTHS REPORTED										
UPBOUND STATISTICS	3	50	1	54	4	2	6	6	45	0	51	3
DOWNBOUND STATISTICS	6	53	0	59	2	7	9	8	49	0	57	6
TOTALS	9	103	1	113	6	9	15	14	94	0	108	9
COLUMBUS LOCK & DAM	***	ONLY SECOND AND THIRD MONTHS REPORTED										
UPBOUND STATISTICS	13	49	31	93	3	12	15	29	48	4	81	5
DOWNBOUND STATISTICS	15	46	28	89	12	3	15	30	44	5	79	3
TOTALS	28	95	59	182	15	15	30	59	92	9	160	9
ABERDEEN LOCK & DAM	***	ONLY SECOND AND THIRD MONTHS REPORTED										
UPBOUND STATISTICS	0	38	1	39	0	0	0	2	32	13	47	1
DOWNBOUND STATISTICS	1	34	0	35	0	1	1	3	30	13	46	0
TOTALS	1	72	1	74	0	1	1	5	62	26	93	1



TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC K5	DISTRICT NAME MOBILE			DIVISION NAME SOUTH ATLANTIC									MONTHS REPORTED							
													1/84			2/84			3/84	
												ALL TIMES EXPRESSED IN MINUTES								
APPROACH			LOCK PROCESSING TIME									: DELAYED		DELAY AVG (TONS)	DELAY MAX (ALL VSSLS)					
			ENTRY			CHAMBER			EXIT			: TONS								
MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	:								
TEAN TOMBIGBEE WATERWAY																				
GAINESVILLE LOCK & DAM			3	11	34	1	5	11	8	12	17	2	6	12	:	0	0	.0	0	
ALICEVILLE LOCK & DAM			1	1	13	1	1	8	5	13	29	1	1	11	:	1	1	1.0	31	
COLUMBUS LOCK & DAM			1	7	45	1	2	20	5	13	25	1	2	15	:	1	30	30.0	30	
ABERDEEN LOCK & DAM			1	3	14	1	1	10	5	14	33	1	2	15	:	0	0	.0	47	

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
K6	SAVANNAH	SOUTH ATLANTIC	1/84	2/84	3/84

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
SAVANNAH RIVER	01-NEW SAVANNAH BLUFF LOCK & DAM	0360/0056/12.0

NO DATA RECORDED ON SUMRY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
K7	WILMINGTON	SOUTH ATLANTIC	1/84	2/84	3/84

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
CAPE FEAR RIVER	01-LOCK & DAM 1	0200/0040/10.0
	02-LOCK & DAM 2	0200/0040/10.0
	03-WILLIAM O HUSKE LOCK & DAM	0300/0040/10.0

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC K7	DISTRICT NAME WILMINGTON	DIVISION NAME SOUTH ATLANTIC	MONTHS REPORTED											
			1/84			2/84			3/84					
RIVER/LOCK NAME			TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS CONNER	LCKGES RECRTN	LCKGES OTHER (NAV, OPN, ETC)	LCKGES TOTAL	TONNAGE (KTONS)
CAPE FEAR RIVER														
LOCK & DAM 1			***	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS			2	0	0	2	0	2	2	4	0	1	5	2
DOWNBOUND STATISTICS			2	0	0	2	2	0	2	4	0	1	5	0
TOTALS			4	0	0	4	2	2	4	8	0	2	10	2
LOCK & DAM 2			***	ONLY FIRST MONTH REPORTED										
UPBOUND STATISTICS			2	0	0	2	0	2	2	4	0	1	5	2
DOWNBOUND STATISTICS			2	0	0	2	2	0	2	4	0	1	5	0
TOTALS			4	0	0	4	2	2	4	8	0	2	10	2
WILLIAM O HUSKE LOCK & DAM			***	ONLY FIRST MONTH REPORTED										
UPBOUND STATISTICS			2	0	0	2	0	2	2	2	0	0	2	2
DOWNBOUND STATISTICS			2	0	0	2	2	0	2	2	0	0	2	0
TOTALS			4	0	0	4	2	2	4	4	0	0	4	2

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC K7	DISTRICT NAME WILMINGTON			DIVISION NAME SOUTH ATLANTIC			MONTHS REPORTED																	
							1/84						2/84						3/84					
ALL TIMES EXPRESSED IN MINUTES																								
APPROACH			LOCK PROCESSING TIME																					
ENTRY			CHAMBER			EXIT			: DELAYED DELAY			DELAY			DELAY									
MIN AVG MAX			MIN AVG MAX			MIN AVG MAX			: TONS			TIME			AVG			MAX						
												(TONS)			(TONS)			(ALL VSSLS)						
CAPE FEAR RIVER																								
LOCK & DAM 1																								
	5	5	5	5	5	5	15	15	15	5	5	5	:	0	0	.0	0							
LOCK & DAM 2																								
	5	5	5	5	5	10	10	11	15	5	5	10	:	4	20	5.0	5							
WILLIAM O HUSKE LOCK & DAM																								
	5	5	5	5	5	5	30	30	30	5	5	5	:	0	0	.0	0							

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
L2	SACRAMENTO	SOUTH PACIFIC	1/84	2/84	3/84

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
SCRMNTD DWSHP CHNL	01-BARGE CANAL LOCK	0640/0086/23.0

NO DATA RECORDED ON SUMMRY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

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EROC #3	DISTRICT NAME GALVESTON	DIVISION NAME SOUTHWESTERN	MONTHS REPORTED		
			1/84	2/84	3/84
-----					
RIVER	LCODE-LOCK NAME		LEN/WID/DRAFT (FT/FT/FT)		
GULF INTRACOASTAL	11-COLORADO RIVER EAST LOCK		1200/0075/15.0		
	12-COLORADO RIVER WEST LOCK		1200/0075/15.0		
	13-BRAZOS EAST GATE		9999/0075/15.0		
	14-BRAZOS WEST GATE		9999/0075/15.0		
-----					

NO DATA RECORDED ON SUMMRY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
 FOR THE PERIOD 1/84 THROUGH 3/84  
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
M4	LITTLE ROCK	SOUTHWESTERN	1/84	2/84	3/84

---

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
ARKANSAS RIVER	01-NORRELL LOCK & DAM	0600/0110/12.0
	02-LOCK & DAM 2	0600/0110/12.0
	03-LOCK & DAM 3	0600/0110/12.0
	04-LOCK & DAM 4	0600/0110/12.0
	05-LOCK & DAM 5	0600/0110/12.0
	06-DAVID D TERRY LOCK & DAM	0600/0110/12.0
	07-MURRAY LOCK & DAM	0600/0110/12.0
	08-TOAD SUCK FERRY LOCK & DAM	0600/0110/12.0
	09-LOCK & DAM 9	0600/0110/12.0
	10-DARDANELLE LOCK & DAM	0600/0110/12.0
	11-OZARK LOCK & DAM	0600/0110/12.0
	13-LOCK & DAM 13	0600/0110/12.0

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TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME LITTLE ROCK	DIVISION NAME SOUTHWESTERN	MONTHS REPORTED										
			1/84			2/84			3/84				
RIVER/LOCK NAME		TONS	VESSEL RECRTN	VESSEL OTHER	VESSEL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER (NAV, OPN, ETC)	LCKGES TOTAL	TONNAGE (KTONS)
-----													
ARKANSAS RIVER													
MORRELL LOCK & DAM		***	ONLY FIRST AND THIRD MONTHS REPORTED										
UPBOUND STATISTICS		108	3	9	120	345	223	568	95	1	29	125	296
DOWNBOUND STATISTICS		112	3	4	119	54	520	574	94	4	31	129	668
TOTALS		220	6	13	239	399	743	1142	189	5	60	254	964
LOCK & DAM 2		***	ONLY FIRST AND THIRD MONTHS REPORTED										
UPBOUND STATISTICS		107	4	10	121	334	223	557	116	2	8	126	292
DOWNBOUND STATISTICS		111	5	4	120	52	521	573	116	4	9	129	656
TOTALS		218	9	14	241	386	744	1130	232	6	17	255	948
LOCK & DAM 3		***	ONLY FIRST AND THIRD MONTHS REPORTED										
UPBOUND STATISTICS		104	2	3	109	313	224	537	105	2	16	123	295
DOWNBOUND STATISTICS		112	2	0	114	56	487	543	110	2	17	129	608
TOTALS		216	4	3	223	369	711	1080	215	4	33	252	903
LOCK & DAM 4		***	ONLY FIRST AND THIRD MONTHS REPORTED										
UPBOUND STATISTICS		98	10	6	114	303	224	527	103	4	8	115	299
DOWNBOUND STATISTICS		106	4	0	110	55	471	526	106	4	10	120	601
TOTALS		204	14	6	224	358	695	1053	209	8	18	235	900
LOCK & DAM 5		***	ONLY FIRST AND THIRD MONTHS REPORTED										
UPBOUND STATISTICS		82	80	5	167	206	184	390	95	57	6	158	230
DOWNBOUND STATISTICS		90	88	0	178	56	341	397	99	66	8	173	511
TOTALS		172	168	5	345	262	525	787	194	123	14	331	741
DAVID D TERRY LOCK & DAM		***	ONLY FIRST AND THIRD MONTHS REPORTED										
UPBOUND STATISTICS		86	16	7	109	223	193	416	87	20	6	113	241
DOWNBOUND STATISTICS		92	17	2	111	58	340	398	90	22	6	118	509
TOTALS		178	33	9	220	281	533	814	177	42	12	231	750
MURRAY LOCK & DAM		***	ONLY FIRST AND THIRD MONTHS REPORTED										
UPBOUND STATISTICS		60	19	17	96	169	150	319	79	16	3	98	180
DOWNBOUND STATISTICS		60	22	20	102	37	289	326	82	19	4	105	460
TOTALS		120	41	37	198	206	439	645	161	35	7	203	640

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC #4	DISTRICT NAME LITTLE ROCK	DIVISION NAME SOUTHWESTERN	MONTHS REPORTED											
			1/84		2/84		3/84							
RIVER/LOCK NAME			TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS CONWR	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
			(NAV, OPN, ETC)											
ARKANSAS RIVER														
TOAD SUCK FERRY LOCK & DAM			***	ONLY FIRST AND THIRD MONTHS REPORTED										
UPBOUND STATISTICS			59	1	1	61	168	146	314	60	1	6	67	175
DOWNBOUND STATISTICS			60	1	2	63	37	289	326	62	1	8	71	449
TOTALS			119	2	3	124	205	435	640	122	2	14	138	624
LOCK & DAM 9			***	ONLY FIRST AND THIRD MONTHS REPORTED										
UPBOUND STATISTICS			58	26	2	86	171	139	310	64	19	6	89	166
DOWNBOUND STATISTICS			61	23	0	84	35	289	324	67	17	8	92	447
TOTALS			119	49	2	170	206	428	634	131	36	14	181	613
DARDANELLE LOCK & DAM			***	ONLY FIRST AND THIRD MONTHS REPORTED										
UPBOUND STATISTICS			61	5	3	69	176	145	321	65	4	7	76	172
DOWNBOUND STATISTICS			63	5	2	70	25	297	332	66	3	9	78	471
TOTALS			124	10	5	139	211	442	653	131	7	16	154	643
OZARK LOCK & DAM			***	ONLY FIRST AND THIRD MONTHS REPORTED										
UPBOUND STATISTICS			59	12	1	72	178	140	318	61	8	28	97	161
DOWNBOUND STATISTICS			60	15	1	76	33	290	329	63	9	30	102	462
TOTALS			119	27	2	148	211	430	641	124	17	58	199	624
LOCK & DAM 13			***	ONLY FIRST AND THIRD MONTHS REPORTED										
UPBOUND STATISTICS			61	2	1	64	176	145	321	63	1	7	71	166
DOWNBOUND STATISTICS			62	2	2	66	37	290	327	64	1	8	73	448
TOTALS			123	4	3	130	213	435	648	127	2	15	144	614

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC M4	DISTRICT NAME LITTLE ROCK	DIVISION NAME SOUTHWESTERN	MONTHS REPORTED															
			1/84					2/84					3/84					
			ALL TIMES EXPRESSED IN MINUTES															
APPROACH			LOCK ENTRY			PROCESSING TIME CHAMBER			EXIT			:	DELAYED TOWS	DELAY TIME	DELAY AVG	DELAY MAX		
MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	(TOWS)	(TOWS)	(ALL VSSLS)
ARKANSAS RIVER																		
NORRELL LOCK & DAM	1	8	65	1	8	55	1	8	24	2	8	25	:	3	30	10.0	15	
LOCK & DAM 2	1	12	54	1	10	38	2	11	40	1	12	82	:	31	1363	44.0	125	
LOCK & DAM 3	1	11	155	1	8	42	5	11	40	1	10	64	:	16	533	33.3	103	
LOCK & DAM 4	1	11	73	1	8	36	5	11	35	2	11	84	:	13	341	26.2	70	
LOCK & DAM 5	1	9	33	1	6	40	5	10	26	1	9	40	:	40	490	12.3	65	
DAVID D TERRY LOCK & DAM	1	12	51	1	8	32	5	9	20	2	10	37	:	12	310	25.8	75	
MURRAY LOCK & DAM	1	8	30	1	7	39	7	10	22	1	8	80	:	13	326	25.1	73	
TOAD SUCK FERRY LOCK & DAM	1	10	65	1	9	34	5	10	28	2	10	46	:	21	213	10.1	53	
LOCK & DAM 9	1	13	46	1	8	47	6	12	37	1	10	56	:	44	409	9.3	155	
DARDANELLE LOCK & DAM	1	13	65	1	9	39	5	13	52	1	9	45	:	111	1084	9.8	75	
OZARK LOCK & DAM	1	10	55	2	9	45	5	12	30	1	10	70	:	80	743	9.3	45	
LOCK & DAM 13	1	11	54	2	11	75	5	13	35	1	14	61	:	20	465	23.3	111	

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
 FOR THE PERIOD 1/84 THROUGH 3/84  
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
MS	TULSA	SOUTHWESTERN	1/84	2/84	3/84

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
ARKANSAS RIVER	21-W D MAYO LOCK & DAM	0600/0110/14.0
	22-ROBERT S KERR LOCK & DAM & RES	0600/0110/14.0
	23-WEBBERS FALLS LOCK & DAM	0600/0110/14.0
	24-CHOUTEAU LOCK & DAM	0670/0110/14.0
	25-NEWT GRAHAM LOCK & DAM	0670/0110/14.0

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC MS	DISTRICT NAME TULSA	DIVISION NAME SOUTHWESTERN	MONTHS REPORTED									
			1/84			2/84			3/84			
RIVER/LOCK NAME												
	TONS	VESSL RECRTH	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGS TOTAL	LOCKGS COMMER	LCKGES RECRTH	LCKGES OTHER (NAV, OPN, ETC)	LCKGES TOTAL	TONNAGE (KTONS)
ARKANSAS RIVER												
W D MAYO LOCK & DAM	xxx											
UPBOUND STATISTICS	89	11	1	101	249	210	459	93	6	5	104	257
DOWNBOUND STATISTICS	91	12	2	105	49	428	477	95	5	4	104	686
TOTALS	180	23	3	206	298	638	936	188	11	9	208	944
ROBERT S KERR LOCK & DAM &RES	xxx											
UPBOUND STATISTICS	91	11	2	104	249	213	462	95	11	5	111	266
DOWNBOUND STATISTICS	92	9	4	105	50	431	481	96	8	5	109	708
TOTALS	183	20	6	209	299	644	943	191	19	10	220	975
WEBBERS FALLS LOCK & DAM	xxx											
UPBOUND STATISTICS	88	8	0	96	202	210	412	90	6	2	98	262
DOWNBOUND STATISTICS	89	6	0	95	64	380	444	91	4	4	99	624
TOTALS	177	14	0	191	266	590	856	181	10	6	197	887
CHOUTEAU LOCK & DAM	xxx											
UPBOUND STATISTICS	90	1	4	95	201	163	364	95	0	2	97	211
DOWNBOUND STATISTICS	88	3	7	98	45	330	375	97	1	2	100	543
TOTALS	178	4	11	193	246	493	739	192	1	4	197	755
NENT GRAHAM LOCK & DAM	xxx											
UPBOUND STATISTICS	89	1	1	91	199	160	359	91	0	3	94	206
DOWNBOUND STATISTICS	89	3	5	97	54	321	375	95	1	3	99	528
TOTALS	178	4	6	188	253	481	734	186	1	6	193	735

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/84 THROUGH 3/84  
INSTITUTE FOR WATER RESOURCES

EROC MS	DISTRICT NAME TULSA			DIVISION NAME SOUTHWESTERN							MONTHS REPORTED							3/84																					
											1/84														2/84														
											ALL TIMES EXPRESSED IN MINUTES																												
											APPROACH			LOCK ENTRY			PROCESSING TIME CHAMBER			EXIT			: DELAYED DELAY			DELAY			DELAY										
MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	:	TONS	TIME	AVG	MAX	(TONS)	(TONS)	(ALL VSSLS)																				
ARKANSAS RIVER																																							
H D MAYO LOCK & DAM			1	13	53	1	10	40	5	11	30	1	11	45 :	12	424	35.3	55																					
ROBERT S KERR LOCK & DAM &RE			2	9	24	1	11	42	5	15	39	3	13	60 :	16	728	45.5	136																					
WEBBERS FALLS LOCK & DAM			2	18	65	2	10	38	5	19	55	2	10	52 :	40	1169	29.2	80																					
CHOUTEAU LOCK & DAM			1	10	29	1	9	48	8	16	52	2	10	59 :	109	350	3.2	60																					
NENT GRAHAM LOCK & DAM			1	11	36	1	9	60	5	15	38	2	14	85 :	28	1154	41.2	250																					

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/83 THROUGH 3/83  
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
H5	TULSA	SOUTHWESTERN	1/83	2/83	3/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
ARKANSAS RIVER	21-W D MAYO LOCK & DAM	0600/0110/14.0
	22-ROBERT S KERR LOCK & DAM & RES	0600/0110/14.0
	23-WEBBERS FALLS LOCK & DAM	0600/0110/14.0
	24-CHOUTEAU LOCK & DAM	0670/0110/14.0
	25-NEWT GRAHAM LOCK & DAM	0670/0110/14.0

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/83 THROUGH 3/83  
INSTITUTE FOR WATER RESOURCES

EROC NS	DISTRICT NAME TULSA	DIVISION NAME SOUTHWESTERN							MONTHS REPORTED			
									1/83	2/83	3/83	
RIVER/LOCK NAME												
	TOMS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
(NAV, OPN, ETC)												
ARKANSAS RIVER												
H D MAYO LOCK & DAM	XXX											
UPBOUND STATISTICS	105	15	2	122	379	143	522	107	7	7	121	173
DOWNBOUND STATISTICS	102	16	6	124	46	485	531	105	7	5	117	743
TOTALS	207	31	8	246	425	628	1053	212	14	12	238	916
ROBERT S KERR LOCK & DAM & RES	XXX											
UPBOUND STATISTICS	106	16	5	127	384	143	527	108	16	8	132	174
DOWNBOUND STATISTICS	103	16	7	126	45	491	536	106	12	5	123	763
TOTALS	209	32	12	253	429	634	1063	214	28	13	255	937
WEBBERS FALLS LOCK & DAM	XXX											
UPBOUND STATISTICS	105	2	4	111	338	148	486	110	2	19	131	186
DOWNBOUND STATISTICS	102	3	5	110	51	426	477	105	2	16	123	653
TOTALS	207	5	9	221	389	574	963	215	4	35	254	840
CHOUTEAU LOCK & DAM	XXX											
UPBOUND STATISTICS	102	4	6	112	306	123	429	109	1	3	113	142
DOWNBOUND STATISTICS	100	2	6	108	39	390	429	105	1	2	108	616
TOTALS	202	6	12	220	345	513	858	214	2	5	221	759
NENT GRAHAM LOCK & DAM	XXX											
UPBOUND STATISTICS	102	6	15	123	297	121	418	109	1	5	115	137
DOWNBOUND STATISTICS	99	7	5	111	38	373	411	104	2	5	111	595
TOTALS	201	13	20	234	335	494	829	213	3	10	226	733

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT  
FOR THE PERIOD 1/83 THROUGH 3/83  
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
N5	TULSA	SOUTHWESTERN	1/83	2/83	3/83

## ALL TIMES EXPRESSED IN MINUTES

APPROACH			LOCK PROCESSING TIME			EXIT			DELAIED DELAY			DELAY		DELAY		
			ENTRY			CHAMBER						TIME		AVG		
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	MAX

## ARKANSAS RIVER

W D MAYO LOCK & DAM	1	10	41	1	9	33	5	10	22	2	10	75	:	9	196	21.8	75
ROBERT S KERR LOCK & DAM ARE	1	10	31	1	10	31	7	15	34	3	12	44	:	12	327	27.3	105
WEBBERS FALLS LOCK & DAM	1	15	70	2	8	32	7	19	40	2	8	45	:	34	373	11.0	29
CHOUTEAU LOCK & DAM	2	10	29	1	8	34	5	16	31	2	9	35	:	111	468	4.2	87
NEWT GRAHAM LOCK & DAM	1	12	36	1	9	45	5	14	25	2	14	38	:	23	611	26.6	65

**END**

**FILMED**

**12-84**

**DTIC**